# Research Models

### **Our Animal Models**

Charles River is committed to providing you with high-quality genetically standardized models such as VAF/Plus® and VAF/Elite® animals, which are free of select infectious agents and parasites. We understand that selecting the appropriate animal model for your studies is critical to your research success. To assist you, we offer an evaluation program that allows you to assess the quality and compatibility of our animal models before making a purchase. For more information, please go to www.criver.com/rmeval.

### **VAF\*** Health Profiles

The table below lists the infectious agents specifically excluded from our VAF/Plus®, VAF/Elite®, and immunodeficient VAF/Elite® animal colonies. For further information regarding viral profiles, microbiological flora, or the comprehensive list of agents included in the Charles River health surveillance program, visit the Health Reports section of our website (www.criver.com/info/rm), call us at 1.877.274.8371, or email us at askcharlesriver@crl.com.

| Health Profile                  | Species                    | Agents Excluded <sup>†</sup>  |
|---------------------------------|----------------------------|---|
|                                 | Mouse                      | SEND, PVM, MHV, MVM, MPV, TMEV (GDVII), REO, EDIM, MAV, POLY, K, MCMV, MTLV, LCMV, HANT, ECTRO ECUN, CARB, LDV, MNV   |
|                                 |                            | M. pulmonis, Salmonella spp., S. moniliformis, C. kutscheri, H. hepaticus, C. rodentium   |
|                                 | Rat                        | SEND, PVM, SDAV, KRV, H-1, RPV, RMV, REO, RTV, LCMV, HANT, MAV, ECUN, CARB  |
| VAF/Plus®                       | Hat                        | M. pulmonis, Salmonella spp., S. moniliformis, C. kutscheri, H. hepaticus   |
| VAF/Plus®                       | Cuinos nia                 | SEND, PVM, LCMV, REO, GAV   |
| <i>7</i> <b>a</b> <i>j</i> 1 de | Guinea pig                 | M. pulmonis, Salmonella spp., S. moniliformis, S. zooepidemicus, B. bronchiseptica, H. hepaticus  |
|                                 | Hamster                    | SEND, PVM, LCMV, REO, ECUN  |
|                                 | Hamster                    | Salmonella spp., H. hepaticus   |
|                                 | Rabbit                     | ECUN, RHDV  |
|                                 | Habbit                     | P. multocida, Salmonella spp., Treponema, Tyzzer's disease  |
|                                 | Mouse (immunocompetent)    | These mice are free of all of the agents listed above in the VAF/Plus® mouse profile, plus Beta hemolytic Streptococcus spp., K. oxytoca, K. pneumoniae, P. pneumotropica, P. aeruginosa, P. mirabilis, S. aureus.  |
| VAF/Elite®                      | Mouse<br>(immunodeficient) | These mice are free of all of the agents listed above in the VAF/Plus® mouse profile, plus Beta hemolytic Streptococcus spp., K. oxytoca, K. pneumoniae, P. pneumotropica, Pneumocystis spp., P. aeruginosa, P. mirabilis, S. aureus, C. bovis.                               |
|                                 | Rat<br>(immunodeficient)   | These rats are free of all of the agents listed above in the VAF/Plus® rat profile, plus S. aureus, S. pneumoniae, Beta hemolytic Streptococcus spp., Klebsiella spp., K. oxytoca, K. pneumoniae, P. pneumotropica, Pneumocystis spp., P. aeruginosa, P. mirabilis, C. bovis. |

<sup>\*</sup> Virus Antibody Free (VAF)

The VAF/Elite® health profile is currently offered for the following stocks and strains of mice: 129-Elite, BALB/c-Elite, C57BL/6-Elite, CD1-Elite, SJL-Elite, and SKH1-Elite.

<sup>†</sup> All helminths, ectoparasites, and pathogenic GI protozoa are excluded as part of our VAF/Plus® and VAF/Elite® profiles. See Glossary of Terms for abbreviation key for agents.

### **Rirth Dates**

Birth dates are furnished on shipping documents for orders placed by age and are calculated according to the ship date of the order. The date of birth is based upon the midpoint of the specified age range. Exact date of birth is provided when exact-age animals are ordered.

## **Age/Weight Correlation Information**

Age/weight correlation information is presented throughout this product catalog for each sex of most stocks and strains. The information is specific to the conditions maintained in Charles River barrier production rooms. The shaded areas on each chart are the mean weight, plus or minus two standard deviations, at a given age, averaged across all production facilities. This represents the majority of the population. Overlaps in the full range of weights occur between age groups, and will be more pronounced in outbred animals.

# **Ordering Information**

To accommodate your need for prompt shipment, sales are made on the basis of telephone orders without written documentation. Fax or email confirmation of orders are available upon request. Our acceptance of your order is expressly made conditional on your consent to our General Terms and Conditions of Sale, and our prices have been set accordingly.

Any provision of a purchase order or confirmation that is additional to, or conflicts with, our General Terms and Conditions of Sale is expressly rejected and shall not be binding on us. Please consider this before placing your order.

Some animal models are produced only in small quantities. Upon your request, we will work to scale up our colony production to meet your needs.

The prices in this catalog are for customers located in the United States who are purchasing research models and services sourced from the United States. All other customers should contact Client Relations for pricing in your region.

For additional information, please contact the Client Relations Department at 1.800.LAB.RATS (1.800.522.7287) or by fax at 1.800.992.7329.

### **Cancellation Policies**

Standard or Regular Animal Orders To avoid charges, cancellation of standard animal orders must be received at least one business day prior to the scheduled shipment date.

Rabbit Orders Cancellations of rabbit orders shipping at 3.1 kg or higher are subject to a cancellation fee.

Timed Pregnant Animals To avoid charges, cancellations for pregnant animals must be received prior to the scheduled mating day.

Value-Added Services To avoid charges, cancellations for value-added services, including, but not limited to, tattooing or ear tagging, must be received at least three business days prior to the ship date.

Surgical and Biospecimen Services Cancellations must be received at least five business days (ten for guinea pigs) prior to the scheduled ship date for most orders. Notice of cancellation is extended prior to the scheduled ship date for procedures with prolonged holding times, including, but not limited to, 5/6 nephrectomy, Parkinson's, and telemetry procedures. Animals requested to be held longer than seven days postoperatively will incur a holding fee.

Shipments Outside North America Cancellations need to be received by 5:00 p.m. Eastern Time (ET) on the Friday prior to shipping. If canceled by then, the only cost incurred is for the USDA Health Certificate. If cancellation notice is received after the animals are packed and/or sent to the airport, the customer is responsible for animal and freight charges for transportation to/from the airport.

## **Miscellaneous Charges**

#### Surcharges (where applicable)

| 1 gram weight range for inbred mice   | Add 5%                  |
|---|-------------------------|
| 5 gram weight range for non-obese rats & hamsters   | Add 25%                 |
| 10 gram weight range for non-obese rats   | Add 15%                 |
| Retired breeders with specified weight or approximate age                                     | Add 50%                 |
| Applicable Container and Other Charges  |                         |
| Filtered shipping container (Sew Easy™)   | 21.70 each              |
| Gnoto-safe® shipping container  | 40.40 each              |
| Weight list   | 0.70 per animal         |
| Import/Export Preparation Charges   |                         |
| Preparation of appropriate documentation for international shipment of Charles River products | 600.00<br>per shipment* |
| Importation or exportation of   | 900.00                  |

<sup>\*</sup> Plus fixed costs

non-Charles River products

## **Pregnant Animal Guarantee Policy**

Charles River produces pregnant animals to your order specification. Most barrierreared rats and mice can be safely and accurately palpated for pregnancy after 13 days of gestation. Prior to that, pregnancy is determined by observation of a vaginal plug. Following timed exposure to the male, the date the copulatory plug is found (plug date) is considered to be day one of gestation unless noted otherwise. For additional information and/or strain availability, contact the Client Relations Department at 1.800.LAB.RATS (1.800.522.7287).

#### PERCENT GUARANTEED PREGNANT

per shipment\*

| Stock or Strain      | Timed<br>Pregnant Up<br>to 12 Days<br>Gestation | Timed<br>Pregnant 13<br>Days Gestation<br>and Over | Untimed<br>Pregnant<br>13-17 Days<br>Gestation Only |
|----------------------|---|--|---|
| Outbred rats         | Plug<br>guarantee<br>only                       | 100%   | 95%   |
| Outbred mice         | Plug<br>guarantee<br>only                       | 100%   | 100%  |
| Inbred rats and mice | Plug<br>guarantee<br>only                       | 75%  | 75%   |
| NZW rabbits          | 50%   | 100%   | N/A   |

Note: We do not guarantee the number of offspring per litter. Due to natural variations in the length of gestation, the exact day of parturition is not guaranteed. To avoid charges, cancellations for pregnant animals must be received prior to the scheduled mating day.

**RESEARCH MODELS OVERVIEW** 

# Filtered (Sew Easy™) Shipping Container Densities

It is our responsibility to maintain the strictest health and welfare standards when shipping our animals, not only because it's the right thing to do, but because our animals are vital to your research. To help make the comfort and care of our animals a priority, we provide several crates that are tailored to established shipping density guidelines for a variety of species. Our shipping

crates have viewing windows that allow you to inspect the animals and assess their interior conditions during and after shipping. The interior of our filtered crates is UV-light irradiated prior to packing animals, and our individual Gnoto-safe® plastic containers are disinfected with a cold sterilant prior to packing the animals.

### Rats

| Gram Range Non-<br>Obese | Days Range<br>Non-Obese | Days Range<br>Obese | Animals per<br>Container* |
|--------------------------|-------------------------|---------------------|---------------------------|
| Up to 50                 | Up to 21                | Up to 21            | 20                        |
| 51-75                    | 22-26                   | 22-24               | 17                        |
| 76-100                   | 27-30                   | 25-26               | 13                        |
| 101-125                  | 31-35                   | 27-28               | 10                        |
| 126-150                  | 36-42                   | 29-36               | 9                         |
| 151-200                  | 43-50                   | 37-42               | 8                         |
| 201-250                  | 51-60                   | 43-48               | 6                         |
| 251-300                  | 61-70                   | 49-56               | 5                         |
| 301-400                  | 71-94                   | 57-63               | 4                         |
| 401-450                  | 95-plus                 | 64-70               | 3                         |
| 451-plus                 |                         | 71-plus             | 2                         |

<sup>\*</sup> Number of animals per container may be reduced as needed based on model requirements.

# **Guinea Pigs**

| Gram<br>Range | Days<br>Range | Animals per<br>Container |
|---------------|---------------|--------------------------|
| Up to 350     | Up to 33      | 10                       |
| 351-600       | 34-65         | 6                        |
| 601-800       | 66-81         | 5                        |
| 801-plus      | 82-plus       | 4                        |

### **Gerbils**

| Gram<br>Range | Days<br>Range | Animals per<br>Container |
|---------------|---------------|--------------------------|
| Up to 35      | Up to 35      | 35                       |
| 36-50         | 36-56         | 25                       |
| 51-70         | 57-84         | 20                       |
| 71-plus       | 85-plus       | 15                       |

### Mice

| Gram Range<br>Non-Obese | Days Range<br>Non-Obese | Days Range<br>Obese | Animals per<br>Container |
|-------------------------|-------------------------|---------------------|--------------------------|
| Up to 35                | Up to 56                | Up to 56            | 40                       |
| 36-plus                 | 57-plus                 | 57-70               | 33                       |
|                         |                         | 71-plus             | 20                       |

### **Hamsters**

| Gram<br>Range | Days<br>Range | Animals per Container |
|---------------|---------------|-----------------------|
| Up to 50      | Up to 21      | 25                    |
| 51-70         | 22-42         | 20                    |
| 71-plus       | 43-plus       | 15                    |

### **Rabbits**

| Kilogram Range | Animals per Container |
|----------------|-----------------------|
| Up to 2.5      | 2                     |
| 2.6-plus       | 1                     |

# 100% Recyclable Gnoto-safe® Shipping Container

|                        | Mice | Rats |
|------------------------|------|------|
| Animals per container* | 30   | 2    |

<sup>\*</sup> Two cages per container

## **Special Services**

|                   | Rats per<br>Container | Mice per<br>Container | Guinea Pigs per<br>Container | Hamsters per<br>Container |
|-------------------|-----------------------|-----------------------|------------------------------|---------------------------|
| Retired breeders  | 3                     | 33                    | 2                            | 3                         |
| Proven breeders   | 3                     | 33                    | 2                            | 3                         |
| Timed pregnants   | 7                     | 17                    | 3                            | 3                         |
| Untimed pregnants | 7                     | 17                    | 3                            | 3                         |
| Littermates       | 7 (1 litter)          | 7 (1 litter)          | 3 (1 litter)                 | 10 (1 litter)             |
| Mothers with pups | 2                     | 3                     | 2                            | 2                         |
| Lactating females | 7                     | 33                    | 3                            | 15                        |

### **RESOURCES**

# **GLOSSARY OF TERMS**

1.877.criver1 | www.criver.com | askcharlesriver@crl.com

| Adenovirus MAR AD Adenovirus Matadanovirus M. R. Anciburius files accessed respiratory bucillus CARB Unclassified Unclassified M. R. R. D. Cilia-associated respiratory bucillus CARB Unclassified Unclassified M. R. R. D. Cilia-associated respiratory bucillus CARB Unclassified Unclassified M. R. R. D. Cilia-associated respiratory bucillus CARB Unclassified Unclassified M. R. R. D. Cilia-associated respiratory bucillus CARB Unclassified Mobilibrius F. Education of the Control of the Carbon M. R. R. D. Cilia-associated respiratory bucillus CARB M. R. D. Cilia-associated CARB Mobilibrius F. Education M. R. Cilia M. Cilia M. R. Cilia M. R. Cilia M.  | Agent                                    | Abbreviation                          | Family/Order                          | Subfam/Genus                          | Host Species |
|--|--|---------------------------------------|---------------------------------------|---------------------------------------|--------------|
| Colles described respiratory braidblus  Charles Uncleaselfied  Chestricture  CPIL  Clostrictation  Chestricture  CPIL  Clostrictation  Chestricture  COV  Peramysoristate  Mortillisms  File  Einnesia  M. R. B. Fercephaltoryocordis virus  Encophaltoryocordis virus  CAV  Aderoviridae  Mastadenovirus  GP  Guinnes pig gyonneside  GP Guinnes pig gyonneside  GP Guinnes pig gyonneside  Hurtavirus  Einnesia  HTV (FINNT)  Burywairidae  Magaliocyteirus  Z Infectous spleen and kidney necrosis virus  RNA  RNA  Orthornyooviridae  Magaliocyteirus  Z Infectous pipen and kidney necrosis virus  RNA  RNA  Orthornyooviridae  Millemarus Avirus  Loudeste dehydrognasse-elevaling virus  LDV/LDH  Artaviridae  Arenvirus  M. R. Brevoniridae  Percoparovirus  M. R. Brevoniridae  Percoparovirus  M. R. Brevoniridae  M. R. Brevoniridae  Percoparovirus  M. R. Brevoniridae  M. R. Brevoni | Adenovirus                               |                                       |                                       |                                       |              |
| Colles described respiratory braidblus  Charles Uncleaselfied  Chestricture  CPIL  Clostrictation  Chestricture  CPIL  Clostrictation  Chestricture  COV  Peramysoristate  Mortillisms  File  Einnesia  M. R. B. Fercephaltoryocordis virus  Encophaltoryocordis virus  CAV  Aderoviridae  Mastadenovirus  GP  Guinnes pig gyonneside  GP Guinnes pig gyonneside  GP Guinnes pig gyonneside  Hurtavirus  Einnesia  HTV (FINNT)  Burywairidae  Magaliocyteirus  Z Infectous spleen and kidney necrosis virus  RNA  RNA  Orthornyooviridae  Magaliocyteirus  Z Infectous pipen and kidney necrosis virus  RNA  RNA  Orthornyooviridae  Millemarus Avirus  Loudeste dehydrognasse-elevaling virus  LDV/LDH  Artaviridae  Arenvirus  M. R. Brevoniridae  Percoparovirus  M. R. Brevoniridae  Percoparovirus  M. R. Brevoniridae  M. R. Brevoniridae  Percoparovirus  M. R. Brevoniridae  M. R. Brevoni | Aleutian disease virus                   | ADV                                   | Parvoviridae                          | Amdovirus                             | F            |
| Clearbidium pillorma  CPIL  Clostridaceae  CDV  Paramycviridae  M. R. R. b., F.  Ectromeira virus (Mousepox)  Ectronomica virus (Mousepox)  GAV  Ademoviridae  Batabaresovirus (AP Ademoviridae  Batabaresovirus (AP Ademoviridae  Batabaresovirus (AP Ademoviridae  Batabaresovirus (AP Ademoviridae  Haritatian  HTMV QHANT)  Buryaviridae  Haritatian  HTMV QHANT)  Buryaviridae  Aquabinavirus (AP Ademoviridae  Aguabinavirus (AP Ademoviridae  Aritativus (AP Ademoviridae  AP Ademoviridae  Aritativus (AP Ademoviridae |  |                                       |                                       |                                       |              |
| Dietemper virus  Ectronelle virus (Mousepox)  Entrelle virus ( |  |                                       |                                       |                                       |              |
| Ectrometal varus (Mousepow)  ESTRO Povertidave Ottropowirs M Einnerida Elimenta M. Rb Erosphaldrozooro curitoria Ecolum Patricipa M. Rt Columba pia ademovirus CAV Adenovirus CAV Adenovirus GP Mastadenovirus GP Mastadenovirus GP Herberovirus GPOWV Adenovirus Betherperevirus GP Herberovirus GPOWV Adenovirus Betherperevirus GP Herberovirus GPOWV Adenovirus Betherperevirus GP Herberovirus GPOWV Birnaviridae Herberovirus GP Herberovirus Infectious pancineato necrosis virus Infectious pancineato necrosis virus Infectious pancineato necrosis virus Infectious spleam and kichney necrosis virus INFA Orthornycoviridae Aquabinorativus Z Infectious spleam and kichney necrosis virus INFA Orthornycoviridae Megalocyteivus Z Infectious spleam and kichney necrosis virus INFA Orthornycoviridae Influenzavirus A F KRV Paroviridae Avirus KRV Paroviridae Arthornycovirius R Loctate dellydrogenase-elevating virus LDVLDH Arterividae Arterivirus M LUV Picornaviridae Arterivirus M LUV Picornaviridae Arterivirus M M Lucrate dellydrogenase-elevating virus LDWLDH Arterividae Arterivirus M R Purphopolic chortomeningitis virus LDWV Aranaviridae Arenavirus M, R GP H Minute virus of mice MVM Paroviridae Arenavirus M, R GP H Minute virus of mice MVM Paroviridae Chapparovirus M Mouse chapparovirus MuCPV Paroviridae Chapparovirus M Mouse chapparovirus M MCWP Paroviridae Betaberperevirus M M Mouse paparovirus M MCWPV Paroviridae Protoparovirus M M Mouse paparovirus M MPP-11-25 Paroviridae Protoparovirus M M Mouse paparovirus M M MVV Caliciviridae Roberovirus M M Mouse paparovirus M M MVV Caliciviridae Roberovirus M M Mucrate norovirus M M MVV Caliciviridae Roberovirus M M Mucrate norovirus M M MVV Caliciviridae Roberovirus M M Mucrate norovirus M M MVV Caliciviridae Roberovirus R R Paramithroza virus (type 3) PIV-2 Paramycoviridae Protoparovirus R R Paramirhuroza virus (type 3) PIV-2 Paramycoviridae Protoparovirus R  | · ·                                      |                                       |                                       |                                       |              |
| Elmeria ELM Elmenidae Elmeria Elmenidae Elmeria M. No Encephallomoro cuntouil ECUN Palestophordidae Cardiovirus M. R. G.P. H. R. Schreephalomyccardilis virus EMCV Picornaviridae Cardiovirus M. R. G.P. H. R. Schreephalomyccardilis virus EMCV Picornaviridae Cardiovirus M. R. G.P. H. R. Schreephalomyccardilis virus GAV Advertoviridae Mastadernovirus GP Cardiovirus GP Cardiovirus GPCMV Herpesviridae Bettherpesvirus GP Haritatan HTMV (HANT) Buryaviridae Haritavirus M. R. R. Infecticus parcreate necrosis virus INFAV Birnaviridae Aquabinavirus Z Infecticus spleen and kichney necrosis virus INFAV Infectious parcreate Megalocytivirus Z Infecticus parcreate in the Maritavirus M. R. Orthorrysoviridae Megalocytivirus Z Infecticus spleen and kichney necrosis virus INFAV Orthorrysoviridae Megalocytivirus Z Infecticus AV Parcvoiridae Protoparvovirus R INFAV Parcvoiridae Protoparvovirus R ILL DVL Ph. Arterivirus M. R. G. W. Parcvoiridae Protoparvovirus M. G. W. Parcvoiridae Protoparvovirus M. L. DVL Ph. Arterivirus M. R. G. W. Parcvoiridae Parcchovirus M. R. G. R. H. Muses chapasovirus M. W. Parcvoiridae Protoparvovirus M. R. G. R. H. Muses chapasovirus M. W. Parcvoiridae Protoparvovirus M. R. G. R. H. Muses chapasovirus M. W. Parcvoiridae Protoparvovirus M. M. G. G. R. H. Muses chapasovirus M. M. G. G. P. Parcvoiridae Betaberpesvirus M. M. M. M. Parcvoiridae Betaberpesvirus M. M. Muses parvovirus M. M. M. P. Parcvoiridae Betaberpesvirus M. M. Muses parvovirus M. M. M. M. P. Parcvoiridae Protoparvovirus M. M. Muses parvovirus M. M. M. M. P. Parcvoiridae Protoparvovirus M. M. M. M. P. Parcvoiridae Protoparvovirus M. M. Muses parvovirus M. M. M. M. P. Parcvoiridae Protoparvovirus M. M. M. M. M. P. Parcvoiridae Protoparvovirus M. M. M. M. M. P. Parcvoiridae Protoparvovirus M. M. P. Parcvoiridae Protoparvovirus M. M. P. Parcvoiridae Protoparvovirus R. P. Par |  |                                       |                                       |                                       |              |
| Encephalitozonor unicuali Finesphalitozonor unicuali Finesphalitozonorius  EMCV Pecrawirdiae Cardiovinis M. R. Gainea pig adenovirus  GAV Adenoviridae Mastadenovirus GP Guinea pig protromegatovirus  GpCMV Herpesviridae Betaherpesvirus GP rientanan  HTNV (HANT) Burysviridae Hartavirus M. R. Infectious papan-relatio necrosia virus  INFA Diffusional pancrelatio necrosia virus  INFA Diffusional virus  INFA Diffusio | •  |                                       |                                       | · · · · · · · · · · · · · · · · · · · |              |
| Encephalomycaerdilis virus GAV Adenoviridae Cardiovirus M, R Guines gig dromorius GAV Adenoviridae Mastadenovirus GP Guines gig dromorius GAV Herpesviridae Betaherpesvirus GP Guines pig dromorius GP Haritaan HTNV (HANT) Bunyaviridae Haritavirus M, R Infectious parcreatic necrosis virus INFA Orthormynoviridae Megalocytivrus Z Infectious parcreatic necrosis virus INFA Orthormynoviridae Megalocytivrus A F Influenza A virus INFA Orthormynoviridae Protoparvovirus A F Influenza A virus Lotatus deliyforgemas-elevating virus LOV/LDP Arteriviridae Protoparvovirus M ILOV/LDP Arteriviridae Arterivirus M Messe chappanevorirus LVV Pocorraeviridae Parcobovirus M Messe chappanevorirus MVM Parvoviridae Protoparvovirus M Musus chappanevorirus MVM Parvoviridae Betaerpreevirus M Musus chappanevorirus MVM Parvoviridae Betaerpreevirus M Musus chappanevorirus MVM Parvoviridae Betaerpreevirus M Musus chappanevorirus MVM Corraeviridae Protoparvovirus M Musus protoparvovirus MVM Parvoviridae Protoparvovirus M MVM Parvoviridae Protoparvovirus R R Parvoviridae Protoparvovirus R R Parvoviridae Protoparvovirus R R Parvoviridae Protoparvovirus M R Parvoviridae Prot |  |                                       |                                       |                                       |              |
| Guinea pig oytomegalovirus GPAV Adenoviridae Mestadenovirus GP Calinea pig oytomegalovirus GP Hantanan HTNV (HANT) Buryseviridae Hantevirus M, R Infectious pencreatic necrosis virus Infectious pencreatic necrosis virus INFA Infectious pencreatic necrosis virus INFA Infectious pencreatic necrosis virus INFA Infectious pencreatic mercosis virus INFA Infectious pencreatic mercosis virus INFA Orthomyxoriridae Influenzavirus A F Influenzavirus A F Influenzavirus INFA Orthomyxoriridae Influenzavirus INFA Orthomyxoriridae Influenzavirus INFA Orthomyxoriridae Influenzavirus INFA Orthomyxoriridae Influenzavirus INFA Influenzavirus INFA Influenzavirus INFA Orthomyxoriridae Influenzavirus INFA INFRA Influenzavirus INFA Influenzavirus INFRA Influenzavirus INFA | -  |                                       | <u>'</u>                              |                                       |              |
| Guinea pig cytomegalovirus Hritov (HANT) Buryavelidae Hantavirus M, R Hritov (HANT) Buryavelidae Hantavirus M, R Hritov (HANT) Buryavelidae Hantavirus Aquabimavirus Z Infectious pincreatic necrosis virus ISRNV Birdoviridae Megalocytvirus Z Infectious pincreatic necrosis virus ISRNV Infoviridae Megalocytvirus Z Infectious pincreatic necrosis virus ISRNV Infoviridae Megalocytvirus Z Infectious pincreatic necrosis virus ISRNV Infoviridae Infectious pincreatic necrosis virus INFA Onthomyoviridae Protoparovirus R INFA Onthomyoviridae Protoparovirus B LDVLDH Arteriviridae Arterivirus Arterivirus Arterivirus LDVLDH Arteriviridae Protoparovirus M M Lujungan virus LV Pinconaviridae Protoparovirus M M Lujungan virus LV Protoparovirus M Mouse cytomegalovirus MCNV Pervoviridae Protoparovirus M M Muses chapparovirus M MCNV Pervoviridae Betaberepervirus M M Muses chapparovirus M MCNV M Merpesviridae Betaberepervirus M M Muses paravovirus MPV-L2-25 Paroviridae Betaberepervirus M M Muses perparovirus M MPV-L2-25 Paroviridae Protoparovirus M M Muses perparovirus M M M Muses perparovirus M M M Muses perparovirus M M M M M M M M M M M M M M M M M M M   |  |                                       |                                       |                                       |              |
| Hantsan HTMV (HANT) Buryawiridae Hantswirus M, R Infectious pancreatic necrosis virus IPNV Birnswirdse Aquabirnavius Z infectious spiene and kidney necrosis virus ISRNV Indoviridae Megaliocyphirus Z infectious spiene and kidney necrosis virus INFA Orthomyxorividae Influenzavirus A F Influenzavirus A F INFA Orthomyxorividae Influenzavirus A F INFA Orthomyxorividae Influenzavirus A F INFA Influenzavirus A F INFA Orthomyxorividae Influenzavirus A F INFA Influenzavirus A F INFA Orthomyxorividae Protosparvirus M INFA Orthomyxorividae Arterivirus M INFA INFA INFA INFA INFA INFA INFA INFA   |  |                                       |                                       |                                       |              |
| Infectious pancreatic necrosis virus Infectious pancreatic necrosis virus Infectious pancreatic necrosis virus Infectious paleen and kidney necrosis virus INFA Orthonyxoviridae Influenza A virus INFA Orthonyxoviridae Influenzavirus A F Influenza A virus INFA Orthonyxoviridae Influenzavirus A F Influenzavirus A INFA Orthonyxoviridae Protoparovirus INFA Orthonyxoviridae Arraevirus INFA M Influenzavirus INFA M Influenzavirus INFA M Influenzavirus INFA M M Influenzavirus INFA Delicariavirus INFA M M Influenzavirus INFA M M Influenzavirus INFA M M M Paroviridae Arraevirus INFA Arraeviridae Arraevirus INFA Arraeviridae Arraevirus INFA Arraeviridae Arraevirus INFA M M M M M M M Paroviridae Protoparovirus INFA M M M M M M M M M M M M M M M M M M M   |  | · · · · · · · · · · · · · · · · · · · | <u> </u>                              | · · · · · · · · · · · · · · · · · · · |              |
| Infectious spleen and kidney necrosis virus  INFA Orthomyxoviridae Influenza A virus  INFA Orthomyxoviridae Influenzavirus A F RVP Paroviridae Protoparovirus A F RVP Paroviridae Protoparovirus A F RVP Paroviridae Parethovirus M Loctate dehydrogenase-elevating virus LUV Picornaviridae Parethovirus R R Loctate dehydrogenase-elevating virus LUV Picornaviridae Parethovirus R R Lymphocytic choriomeningitis virus LCMV Arenaviridae Parethovirus M, R, GR H Minute virus of mice M/M Mouse chapparvovirus MucPV Paroviridae Protoparovirus M Mouse chapparvovirus MCMV Herpesviridae Betacronavirus M Mouse separatis virus MM-V Coronaviridae Betacronavirus M Mouse parovirus MPV-1/2/-5 Paroviridae Protoparovirus M Muse provirus M Muse provirus MPV-1/2/-5 Paroviridae Protoparovirus M Muse provirus M Muse provirus MPV-1/2/-5 Paroviridae Protoparovirus M Muse provirus M Muse protoparovirus M Muse provirus M Muse provirus M Muse protoparovirus M Muse provirus M Muse protoparovirus M M Muse provirus M Muse protoparovirus M M Muse protoparovirus M M Muse provirus M M M Muse provirus M M M M M M M M M M M M M M M M M M M   |  | , ,                                   |                                       |                                       |              |
| Influenza Avirus  INFA Orthomycoviridae Influenzavirus A IKIP Protopanovirus R Ikitham rat virus Lactate dehydrogenase-elevating virus LDVIDH Artenviridae Artenvirus M Ligungan virus LV Picornaviridae Artenvirus R R, GP, H Murus of mice MVM Parvoviridae Artenvirus M Musus of mice MVM Parvoviridae Protopanovirus M Muse chapparvovirus M Muse parvovirus M Muse parvovirus M Muse parvovirus M Muse chapparvovirus M M Muse  | ·  |                                       |                                       | <u> </u>                              |              |
| Kilham rat virus  KRPV Parvoviridae Protoparvovirus R  Lactate delrydrogenae-elevating virus  LDVLDH Arterivirate Parechovirus R  Ruymphocytic chroineningitis virus  LCMV Arenaviridae Parechovirus R  R ymphocytic chroineningitis virus  LCMV Arenaviridae Parechovirus R  R ymphocytic chroineningitis virus  LCMV Arenaviridae Parechovirus M, R, GP, H  Minute virus of mice  MVM Parvoviridae Parovorirus  Muse expansivorirus  Muse expansivorirus  Muse PP Parvoviridae Pertoparvorirus M  Muses chapparvovirus  MCMV Herpesviridae Bettaerpesvirus M  Mouse paparvovirus  MPV-1/2/5 Parvoviridae Bettaerpesvirus M  Mouse parvovirus  MPV-1/2/5 Parvoviridae Protoparvovirus M  Mouse parvovirus  MPV-1/2/5 Parvoviridae Protoparvovirus M  Mouse parvovirus  MPV-1/2/5 Parvoviridae Protoparvovirus M  Mouse provirus  MNUS Calidiviridae Polymarvirus  M Herpesviridae Roseolovirus M  Musine norovirus  MNUS Calidiviridae Norovirus M  Musine norovirus  MNUS Calidiviridae Norovirus M  Musine norovirus  MNUS Calidiviridae Norovirus M  Mycoplasma arthritidis  MARTH Mycoplasmataceae Mycoplasma M, R  Mycoplasma arthritidis  MARTH Mycoplasmataceae Mycoplasma M, R  Mycoplasma virus (type 1) PV-1 Paramycoviridae Repriorivus Rb  Mycoplasma virus (type 2) PV-2 Paramycoviridae Repriorivus Rb  Parainfluenza virus (type 3) PV-3 Paramycoviridae Repriorivus Rb  Parainfluenza virus (type 5) PV-3 Paramycoviridae Rubulavirus Rb  Parainfluenza virus (type 6) PV-4 Paramycoviridae Rubulavirus Rb  Parainfluenza virus (type 6) PV-5 Paramycoviridae Repriorivus Rb  Parainfluenza virus (type 6) PV-6 Paramycoviridae Rubulavirus Rb  Parainfluenza virus (type 6) PV-7 Polymarviridae Rubulavirus Rb  Parainfluenza virus (type 6) PV-8 Paramycoviridae Rubulavirus Rb  Parainfluenza virus (type 6) PV-9 PV-9 Paramycoviridae Rubulavirus Rb  Parainfluenza virus (type 6) PV-9 PV-9 Paramycoviridae Rubulavirus Rb  Parainfluenza virus (type 6) PV-9 PV-9 Paramycoviridae Rubulavirus Rb  Parainfluenza virus (type 6) PV-9 PV-9 Paramycoviridae Rubulavirus Rb  Parainfluenza virus (type 6) P |  |                                       |                                       |                                       |              |
| Luctata dehydrogenase-elevating virus  LUV Picornaviridae Arterivius M Lungan virus  LCMV Arenaviridae Parechovirus R LUmphocytic choriomeningitis virus  LCMV Arenaviridae Arenavirus M. R. GP H Minute virus of mice  MVM Parvoviridae Protoparvovirus M Mouse chapparavovirus  McDeV Parvoviridae Chapparvovirus M Mouse chapparavovirus  McMouse chapparavovirus  McMouse chapparavovirus  MCMV Herpesviridae Betaberpesvirus M Mouse chapparavovirus  MMouse parvovirus  MPVI Coronaviridae Betacronavirus M Mouse parvovirus  MPVI-1/2/5 Parvoviridae Protoparvovirus M Mouse parvovirus  MVM Herpesviridae Reselvirus  M Huttus  M Herpesviridae Reselvirus  M Murine norovirus  M MW Calloviridae Norovirus  M MW Calloviridae Norovirus  M MW Murine rotavirus  M EDIM/ROTA-A Reoviridae Rotavirus  M MW/poplasma arthritidis  MARTH Mycoplasma arthritidis  MARTH Mycoplasma arthritidis  MARTH Mycoplasma pulmonis  M/W MPUL Mycoplasma elevano  M/W Mycoplasma pulmonis  M/W PO Poxviridae Lepotroportrus  R Dearainfluenza virus (type 1)  PRV-1 Paramyxoviridae Respirovirus  R Dearainfluenza virus (type 2)  PRV-2 Paramyxoviridae Respirovirus  R Dearainfluenza virus (type 3)  PRV-3 Paramyxoviridae Respirovirus  R Dearainfluenza virus (type 6)  PRV-3 Paramyxoviridae  R Respirovirus  R PRV  Personnois virus of mice  PRVM Paramyxoviridae  Protoparvovirus  M M R R R R R R R R R R R R R R R R R   |  |                                       |                                       |                                       |              |
| Lymphocytic chromeningitis virus  LVV Picomaviridae Parechovirus R  Arenavirus M, R, GP, H  Minute virus of mice  MYM Parvoviridae Protoparvovirus M  Mouse chapparrovirus  MCMV Herpesviridae Betaceparvovirus M  Mouse chapparrovirus  MCMV Herpesviridae Betaceparvovirus M  Mouse parvovirus  MHV Coronaviridae Betaceparvus M  Mouse parvovirus  MHV Coronaviridae Betaceparvus M  Mouse parvovirus  MFV-1/2/5 Parvoviridae Protoparvovirus M  Mouse parvovirus  MFV-1/2/6 Parvoviridae Protoparvovirus M  Mouse parvovirus  MFV-1/2/6 Parvoviridae Protoparvovirus M  Mouse parvovirus  MFV-1/2/6 Parvoviridae Protoparvovirus M  Mouse provirus  MFV Caronaviridae Polyomavirus M  Mouse provirus  MFV Caliciviridae Roseolovirus M  Murine norovirus  MFV Caliciviridae Roseolovirus M  Minutrine norovirus  MFV Caliciviridae Roseolovirus M  MMV Caliciviridae Norovirus M  MMV Caliciviridae Roseolovirus M  MMV Coplasma arthritidis MARTH Mycoplasmataceae Mycoplasma M, R  Mycoplasma arthritidis MFV MARTH Mycoplasmataceae Mycoplasma M, R  Mycoplasma pulmonis MPUL Mycoplasmateceae Mycoplasma M, R  Mycoplasma virus (type 1) PPV-1 Paramyxoviridae Leporipoxirus Rb  Parainfluenza virus (type 1) PPV-2 Paramyxoviridae Respirovirus Rb  Parainfluenza virus (type 2) PPV-2 Paramyxoviridae Respirovirus Rb  Parainfluenza virus (type 3) PPV-3 Paramyxoviridae Respirovirus Rb  Parainfluenza virus (type 5) PPV-5 Paramyxoviridae Respirovirus GP P  Preumonia virus (type 5) PPV-5 Paramyxoviridae Respirovirus Rb  Preumonia virus of mice PVM Paramyxoviridae Perumovystis R  Preumonia virus of mice PVM Paramyxoviridae Perumovystis R  Preumonia virus MR ARA Adenoviridae Respirovirus Rb  Rabbit plocibinavirus RbAV Adenoviridae Respirovirus R  Rabbit coronavirus RbAV Adenoviridae Respirovirus R  Rabbit toronirus RbAV Adenoviridae Respirovirus R  Rat terioriorus (Riecitus diarnea of infant rats) IDIR/ROTA |  |                                       |                                       | · · · · · · · · · · · · · · · · · · · |              |
| Lymphocytic choriomeningitis virus  LCMV Arenaviridae Arenavirus Minute virus of mice MVM Parvoviridae Protoparvovirus M Mouse chapparovirus M Mouse hepatitis virus MFMV Coronaviridae Betaherpesvirus M M Mouse parvovirus M MPV-11-21-5 Parvoviridae Protoparvovirus M M Mouse parvovirus M MPV-11-22-5 Parvoviridae Protoparvovirus M M Mouse thymic virus M M M Mouse thymic virus M M M M M M M M M M M M M M M M M M M  |  | <u>.</u>                              | <u> </u>                              |                                       |              |
| Minute virus of mice         MVM         Parvoviridae         Protoparvovirus         M           Mouse of chapparvovirus         MLCPV         Parvoviridae         Chapparvovirus         M           Mouse of chappartic         MCMV         Herpesviridae         Betaherpesvirus         M           Mouse partic         MMV         Coronaviridae         Betacoronavirus         M           Mouse paravorirus         MPV-1/2/5         Parvoviridae         Protoparvovirus         M           Mouse preumonitis virus         K         Polyomavirus         M           Mouse preumonitis virus         MTLV         Herpesviridae         Roseolovirus         M           Mustre provirus         MNV         Caliciviridae         Rotavirus         M           Mustre provirus         MNV         Proviridae         Rotavirus         M           Marycoplasma arthritida   | , ,                                      |                                       |                                       |                                       |              |
| Mouse chapparvovirus McPV Parvoviridae Chapparvovirus M Mouse cytomegalovirus MCMV Herpesviridae Betalerpesvirus M M Mouse potymegalovirus MFV Coronaviridae Betacoronavirus M M Mouse parvovirus MFV-1/-2/-5 Parvoviridae Protoparvovirus M M Mouse pervovirus M M Mouse pervovirus M M Mouse pervovirus M M Mouse pervovirus M M M Mouse pervovirus M M M Mouse pervovirus M M M M M M M M M M M M M M M M M M M   | · · · · ·                                |                                       |                                       |                                       |              |
| Mouse cytomegalovirus         MCMW         Herpesviridae         Betaherpesvirus         M           Mouse hepatitis virus         MHV         Coronaviridae         Betacoronavirus         M           Mouse parvovirus         MPV-1/2/-5         Parvoviridae         Protoparvovirus         M           Mouse pheumonitis virus         K         Polyomavirude         Polyomavirus         M           Muses thymic virus         MTLV         Herpesviridae         Roseolovirus         M           Murine rorovirus         MNV         Caliciviridae         Norovirus         M           Murine rotavirus         EDIM/ROTA-A         Reoviridae         Rotavirus         M           Mycoplasma arthrifidis         MARTH         Mycoplasma ed         Mycoplasma         M, R           Mycoplasma pulmonis         MPUL         Mycoplasma ed         Laporipovirus         Rb           Mycoplasma pulmonis         MPUL         Mycoplasma ed         Laporipovirus         Rb           Mycoplasma pulmonis         MPUL         Mycoplasma ed         Laporipovirus         Rb           Paramifulenza virus (type 1)         PIV-1         Paramyzoviridae         Lubulavirus         Rb           Parainifluenza virus (type 2)         PIV-2         Paramyzoviridae  |  |                                       |                                       | · · · · · · · · · · · · · · · · · · · |              |
| Mouse hepatitis virus  MHV  Coronaviridae  Protoparvovirus  MPV-11-21-5  Parvoviridae  Protoparvovirus  M Mouse penuronitis virus  K  Polyomavirus  M Murine norovirus  MV  Caliciviridae  Norovirus  M Murine norovirus  MV  Caliciviridae  Norovirus  M Murine norovirus  MV  Caliciviridae  Roselovirus  M Murine norovirus  M M Mycoplasma extensivus  M Mycoplasma pulmonis  M MPUL  Mycoplasma pulmonis  MPUL  Mycoplasma pulmonis  M Mycoplasma pulmonis  M Mycoplasma pulmonis  M Mycoplasma pulmonis  M M Mycoplasma pulmonis  M M Mycoplasma pulmonis  M M Mycoplasma pulmonis  M M M Mycoplasma pulmonis  M M M M M M M M M M M M M M M M M M   |  |                                       |                                       |                                       |              |
| Mouse parvovirus MPV-1/-2/-5 Parvoviridae Protoparvovirus M Mouse penumonitis virus K Polyomaviridae Polyomavirus M Musus thymic virus MTLV Herpesviridae Roseolovirus M Murine norovirus MNV Caliciviridae Norovirus M Murine norovirus MNV Caliciviridae Norovirus M Murine norovirus EDIM/ROTA-A Reoviridae Norovirus M Murine norovirus MNV Caliciviridae Norovirus M Mycoplasma arthritidis MARTH Mycoplasmataceae Mycoplasma M, R Mycoplasma pulmonis MPUL Mycoplasmataceae Mycoplasma M, R Mycoplasma pulmonis MPUL Mycoplasmataceae Mycoplasma M, R Mycoplasma pulmonis MPUL Paramyxoviridae Leporipoxirus Rb Parainfiluenza virus (type 1) PIV-1 Paramyxoviridae Respirovirus Rb Parainfiluenza virus (type 2) PIV-2 Paramyxoviridae Respirovirus Rb Parainfiluenza virus (type 3) PIV-3 Paramyxoviridae Respirovirus GP Parainfiluenza virus (type 9) PIV-5 Paramyxoviridae Respirovirus GP Preumonozystis carini PCAR Pneumocystisdaceae Pneumocystis R Preumocystis carini PCAR Pneumocystisdaceae Pneumocystis R Preumona virus of mice PVM Paramyxoviridae Prouvorirus M, R, GP, H Probyoma virus POLY Polyomaviridae Hantavirus M PROSpect Hill virus PHV Buryaviridae Hantavirus M PRABbit adenovirus RbAA Adenoviridae Mastadenovirus Rb Rabbit denorrinagic disease virus RHDV Caliciviridae Lagovirus Rb Rabbit picobirnavirus ROTA Reoviridae Rotavirus Rb Rabbit picobirnavirus RCV, SDAV Coronaviridae Picobirnavirus Rb Rata coronavirus/Sialodacryoadentitis virus RCV, SDAV Herpesviridae Protoparvovirus R RATA Revoviridae Retavirus RP RATA Revoviridae Protoparvovirus R RATA Revoviridae Protoparvovirus R RATA Revoviridae Restavirus R RATA Revoviridae Protoparvovirus R RATA PARA PARA PARAPOVICA Protoparvovirus R RATA tratavirus (intelier's-like virus of rats) RT RATA Parvoviridae Protoparvovirus R RATA tratavirus (intelier's-like virus of rats) RT Percoparvovirus NS-1 Parvoviridae Protoparvovirus M, R, GP, H Revoirus REV Parvoviridae Respirovirus M, R, GP, H Revoirus Revoirus Revoirus REPOVI Parvoviridae Respirovirus M, R, GP, H Revoirus Rumar Revoirus RP Recoirus R | , ,                                      |                                       | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |              |
| Mouse pneumonitis virus  K Polyomaviridae Polyomavirus M Mouse thymic virus  MTLV Herpesviridae Roseolovirus M Multrine norovirus  MNV Caliciviridae Roseolovirus M Multrine norovirus  EDIM/ROTA-A Reoviridae Rotavirus M Mycoplasma arthritidis  MARTH Mycoplasmataceae Mycoplasma M, R Mycoplasma arthritidis  MARTH Mycoplasmataceae Mycoplasma M, R Mycoplasma unimosis  MPUL Mycoplasmataceae Mycoplasma M, R MPParainfluenza virus (type 1) PIV-1 Paramycoviridae Respirovirus Rb Parainfluenza virus (type 2) PIV-2 Paramycoviridae Respirovirus GP Parainfluenza virus (type 3) PIV-3 Paramycoviridae Rubulavirus GP, H Peneumocystis carinii PCAR Pneumocystiaceae Pneumocystis R Peneumonia virus of mice PVM Paramycoviridae Pneumovirus M, R, GP, H Penyoma virus PoLy Polyomaviridae Pneumovirus M Penyospect Hill virus PHV Bunyaviridae Polyomavirus M Parabbit adenovirus RbA Rabbit toleovirus RBA Rat torovirus  | •  |                                       |                                       |                                       |              |
| Murine norovirus MTLV Herpesviridae Roseolovirus M Murine norovirus MNV Caliciviridae Norovirus M M Murine norovirus EDIM/ROTA-A Reoviridae Norovirus M M Murine rotavirus EDIM/ROTA-A Reoviridae Rotavirus M M Mycoplasma arthritidis MARTH Mycoplasmataceae Mycoplasma M, R Mycoplasma thritidis MARTH Mycoplasmataceae Mycoplasma M, R Mycoplasma pulmonis MPUL Mycoplasmataceae Mycoplasma M, R Mykopantosis virus MYXO Poxviridae Leporipozirus Rb MYXO Poxviridae Leporipozirus Rb Parainfluenza virus (type 1) PIV-1 Paramyxoviridae Respirovirus Rb Parainfluenza virus (type 2) PIV-2 Paramyxoviridae Rubulavirus Rb Parainfluenza virus (type 3) PIV-3 Paramyxoviridae Respirovirus Rb Parainfluenza virus (type 5) PIV-5 Paramyxoviridae Rubulavirus GP, H Preumonosystis carinii PCAR Pneumocystis RD PNU Paramyxoviridae Pneumocystis RB Pneumocystis carinii PCAR Pneumocystis RB PhU Pneumocystis Carinii PCAR Pneumocystis RB PhU Pneumocystis Carinii PCAR Pneumocystis RB Pneumocystis Carinii PCAR Pneumocystis RB Pneumocystis Carinii PCAR Pneumocystis RB  |  |                                       |                                       | · · · · · · · · · · · · · · · · · · · |              |
| Murine norovirus MNV Caliciviridae Norovirus M Murine rotavirus EDIM/ROTA-A Reoviridae Rotavirus M Mywpoplasma arthritidis MARTH Mycoplasmataceae Mycoplasma M, R Mycoplasma pulmonis MPUL Mycoplasmataceae Mycoplasma M, R Mpomatosis virus (type 1) PIV-1 Paramycoviridae Respirovirus Rb Parainfluenza virus (type 2) PIV-2 Paramycoviridae Respirovirus Rb Parainfluenza virus (type 3) PIV-3 Paramycoviridae Respirovirus GP Parainfluenza virus (type 5) PIV-5 Paramycoviridae Respirovirus GP, H Parainfluenza virus (type 5) PIV-5 Paramycoviridae Pneumocystis R Peneumocystis carinii PCAR Pneumocystis RP Preumocystis carinii PCAR Pneumocystis RP Preumocystis carinii PCAR Pneumocystidaceae Pneumocystis R Preumocystis carinii PCAR Pneumocystis R Paramycoviridae Hantavirus M Paramycoviridae Hantavirus Rb Palabiti totavirus RbAV Adenoviridae Mastadenovirus Rb Palabiti totavirus ROTA Reoviridae Picobirnavirus R PRBV Picobirnaviridae Protoparvovirus R PRBV Picobirnaviridae Protoparvovirus R PRBR Rat parvovirus RPV Parvoviridae Protoparvovirus R PRBR Rat parvovirus RPV Parvoviridae Protoparvovirus R PRBR Rat parvovirus REOV Parvoviridae Protoparvovirus R PRBR Rat parvoviridae Protoparvovirus M, R Paratotavirus (Infecticus diarrhea of infant rats) IDIR/ROTA-B Reoviridae Protoparvovirus M, R PRBR Re | ·  |                                       |                                       |                                       |              |
| Murine rotavirus    EDIM/ROTA-A   Reoviridae   Rotavirus   M   | Mouse thymic virus                       |                                       | <u> </u>                              |                                       |              |
| Mycoplasma arthritidis MARTH Mycoplasmataceae Mycoplasma M, R Mycoplasma pulmonis MPUL Mycoplasmataceae Mycoplasma M, R Mycoplasma pulmonis MPUL Mycoplasmataceae Mycoplasma M, R Mycomatosis virus MYXO Poxviridae Leporipoxirus Rb Parainfiluenza virus (type 1) PIV-1 Paramyxoviridae Respirovirus Rb Parainfiluenza virus (type 2) PIV-2 Paramyxoviridae Respirovirus Rb Parainfiluenza virus (type 3) PIV-3 Paramyxoviridae Respirovirus GP Parainfiluenza virus (type 5) PIV-5 Paramyxoviridae Respirovirus GP Parainfiluenza virus (type 5) PIV-5 Paramyxoviridae Rubulavirus GP, H Pneumocystis carinii PCAR Pneumocystidaceae Pneumocystis R Pneumonia virus of mice PVM Paramyxoviridae Pneumorirus M, R, GP, H Pelyoma virus Prospect Hill virus PHV Bunyaviridae Pneumorirus M, R, GP, H Prospect Hill virus PHV Bunyaviridae Hantavirus M Prospect Hill virus PHV Bunyaviridae Hantavirus M Prospect Hill virus RbAN Adenoviridae Mastadenovirus Rb Rabbit picobirnavirus RBDA Adenovirus RBDA Adenoviridae Betacoronavirus Rb Rabbit picobirnavirus ROTA Reoviridae Rotavirus Rb Rat cromavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R RBAR at cromavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R RBAR at cromavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Protoparvovirus R RBAR at trotavirus RBV Parvoviridae Protoparvovirus R RBAR ARI trotavirus RBV Parvoviridae Protoparvovirus R RBAR ARI trotavirus (Infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Protoparvovirus R RBAR ARI trotavirus (Infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Protoparvovirus M, R RBCO Reoviridae Protoparvovirus M, R RGCOdent Protoparvovirus M, R RECO Reoviridae Hantavirus M, R RGCOdent Protoparvovirus | Murine norovirus                         | MNV                                   | Caliciviridae                         | Norovirus                             |              |
| Mycoplasma pulmonis MPUL Mycoplasmataceae Mycoplasma M, R Myxomatosis virus MYXO Poxviridae Leporipoxirus Rb Parainfluenza virus (type 1) PIV-1 Paramyxoviridae Respirovirus Rb Parainfluenza virus (type 2) PIV-2 Paramyxoviridae Respirovirus Rb Parainfluenza virus (type 3) PIV-3 Paramyxoviridae Respirovirus GP Parainfluenza virus (type 5) PIV-5 Paramyxoviridae Respirovirus GP Parainfluenza virus (type 5) PIV-5 Paramyxoviridae Rubulavirus GP, H Pneumocystis carinii PCAR Pneumocystidaceae Pneumocystis R Pneumoria virus of mice PVM Paramyxoviridae Pneumovirus M, R, GP, H Polyoma virus Omice PVM Paramyxoviridae Pneumovirus M, R, GP, H Polyoma virus POLY Polyomaviridae Polyomavirus M Prospect Hill virus PHV Buryaviridae Polyomavirus M Prospect Hill virus PHV Buryaviridae Hantavirus M Rabbit achovirus RbAV Adenoviridae Mastadenovirus Rb Rabbit hemorrhagic disease virus RHDV Caliciviridae Lagovirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit rotavirus ROTA Reoviridae Rotavirus Rb Rat coronavirus/sialodacryoadentitis virus RCAA Reoviridae Betacoronavirus Rb Rat coronavirus/sialodacryoadentitis virus RCAA Reoviridae Protoparvovirus R Rat at parvovirus RPV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat partovirus RPV Parvoviridae Protoparvovirus R RAT partovirus RPV Parvoviridae Rotavirus R RAT Polyomavirus RECO Reoviridae Rotavirus R Recovirus RECO Reoviridae Respirovirus M, R, GP, H Recovirus SEND Paramyxoviridae Respirovirus M, R, GP, H Recovirus SEND Paramyxoviridae Protoparvovirus M, R, GP, H Rotopalasma gondii TOXO Sarcocystidae Toxoplasma Rb   | Murine rotavirus                         | EDIM/ROTA-A                           | Reoviridae                            | Rotavirus                             | M            |
| Myxomatosis virus MYXO Poxviridae Leporipoxirus Rb Parainfluenza virus (type 1) PIV-1 Paramyxoviridae Respirovirus Rb Parainfluenza virus (type 2) PIV-2 Paramyxoviridae Rubulavirus Rb Parainfluenza virus (type 3) PIV-3 Paramyxoviridae Respirovirus GP Parainfluenza virus (type 3) PIV-5 Paramyxoviridae Respirovirus GP Parainfluenza virus (type 5) PIV-5 Paramyxoviridae Rubulavirus GP, H Parainfluenza virus (type 5) PIV-5 Paramyxoviridae Rubulavirus GP, H Pereumocystis carini PCAR Pneumocystidaceae Pneumocystis R Pereumocystis carini PCAR Pneumocystidae Pneumovirus M, R, GP, H Polyoma virus Polly Polyomaviridae Pneumovirus M, R, GP, H Polyoma virus POLY Polyomaviridae Polyomavirus M Prospect Hill virus PHV Bunyaviridae Hantavirus M Parabbit adenovirus RbAV Adenoviridae Mastadenovirus Rb Rabbit hemorrhagic disease virus RHDV Caliciviridae Lagovirus Rb Rabbit probimavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit probimavirus ROTA Reoviridae Picobirnavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat coronavirus RNW Parvoviridae Protoparvovirus R Rat minute virus RNW Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat parvovirus RATV Picornaviridae Rotavirus R RATA tribiler's-like virus of rats) RTV Picornaviridae Rotavirus R RATA Colonavirus NS-1 Parvoviridae Protoparvovirus M, R, GP, H Recovirus SEND Paramyxoviridae Respirovirus M, R, GP, H Recovirus SEND Paramyxoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus M, R RTPV Picornaviridae Respirovirus M, R, GP, H Recovirus Rurire murine encephalomyelitis virus TMEV (GDVII) Picornaviridae Cardiovirus M, R R-Theiler's murine encephalomyelitis virus TMEV (GDVII) Picornaviridae Protoparvovirus R Rodoparva M, R, GP, H Rodoplarya M, P, GP, H Rodoplarya M, R, | Mycoplasma arthritidis                   | MARTH                                 | Mycoplasmataceae                      | Mycoplasma                            | M, R         |
| Parainfluenza virus (type 1) PIV-1 Parainfluenza virus (type 2) PIV-2 Paramyxoviridae Respirovirus Rb Parainfluenza virus (type 3) PIV-3 Parainfluenza virus (type 3) PIV-3 Parainfluenza virus (type 5) PIV-5 Parainfluenza virus (type 5) PIV-5 Parainfluenza virus (type 5) PIV-5 Paramyxoviridae Rubulavirus GP Parainfluenza virus (type 5) PIV-5 Paramyxoviridae Rubulavirus GR H Pheumocystis carinii PCAR Pneumocystis carinii PCAR Pneumocystidaceae Pneumocystis R Pneumonia virus of mice PVM Paramyxoviridae Pneumovirus M, R, GP H Polyoma virus Polyoma virus POLY Polyomaviridae Polyomavirus M Prospect Hill virus PHV Bunyaviridae Hantavirus M Rabbit adenovirus RbAV Adenoviridae Mastadenovirus Rb Rabbit picobirmavirus Rb Rabbit picobirmavirus RPW Picobirnaviridae Rabbit picobirmavirus Rb Rabbit rotavirus ROTA Revoiridae Rotavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat rat votrus Rat parvovirus RRW Parvoviridae Protoparvovirus R Rat parvovirus Rat parvovirus Rat parvovirus Rat parvovirus Rat parvovirus Rat parvovirus Rat parvoviridae Rotavirus Rat parvovirus Rat parvovirus Rat parvovirus Rat parvovirus Rat rotavirus Rat parvovirus R | Mycoplasma pulmonis                      | MPUL                                  | Mycoplasmataceae                      | Mycoplasma                            | M, R         |
| Parainfluenza virus (type 2) PIV-2 Parainfluenza virus (type 3) PIV-3 Parainfluenza virus (type 3) PIV-3 Parainfluenza virus (type 5) PIV-5 Parainfluenza virus (type 6) PIV-5 Parainfluenza virus (type 6) PIV-5 Paramyxoviridae Pheumocystis carini PCAR Pheumocystidaceae Pheumocystis R Pereumocystis carini PCAR Pheumocystidaceae Pheumovirus M, R, GP, H Polyoma virus POLY Polyoma virus POLY Polyomaviridae Polyomavirus M Rabbit denovirus Rabbit denovirus Rabbit denovirus Rabbit denovirus Rabbit picobirnavirus RHDV Caliciviridae Lagovirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit rotavirus ROTA Recviridae Rotavirus Rat cytonoavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat ratinitute virus RCW Herpesviridae Betaherpesvirus R Rat ratinitute virus RPV Parvoviridae Protoparvovirus R Rat parvovirus RARA Reviridae Rotavirus RARA Reviridae Rotavirus RARA Parvoviridae Protoparvovirus R RARA Reviridae Rotavirus RRARA Parvoviridae Protoparvovirus R RARA Reviridae Rotavirus RARA Reviridae Rotavirus RARA Parvoviridae Rotavirus RARA Parvoviridae Rotavirus RARA Parvoviridae Rotavirus RARA Reviridae Rotavirus RARA Reviridae Rotavirus RARA Parvoviridae Rotavirus RARA Reviridae Rotavirus  | Myxomatosis virus                        | MYXO                                  | Poxviridae                            | Leporipoxirus                         | Rb           |
| Parainfluenza virus (type 3) PIV-3 Paramyxoviridae Respirovirus GP Parainfluenza virus (type 5) PIV-5 Paramyxoviridae Rubulavirus GP, H Peramyxoviridae Rubulavirus GP, H Pneumocystis carinii PCAR Pneumocystidaceae Pneumocystis R Pneumonicystis carinii PCAR Pneumocystidae Pneumocytis R Pneumorius virus of mice PVVM Paramyxoviridae Pneumovirus M, R, GP, H Polyoma virus POLY Polyomaviridae Polyomavirus M Prospect Hill virus PHV Bunyaviridae Hantavirus M Rabbit adenovirus RabAV Adenoviridae Mastadenovirus Rb Rabbit memorrhagic disease virus RHDV Caliciviridae Lagovirus Rb Rabbit protopimavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit rotavirus ROTA Reoviridae Rotavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat coronavirus/sialodacryoadentitis virus RCW Herpesviridae Betacoronavirus R Rat minute virus RMV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat polyomavirus RRPV Parvoviridae Protoparvovirus R Rat polyomavirus RRPV Parvoviridae Protoparvovirus R Rat tooliovirus (infectious diarrhea of infant rats) IDIR/ROTA-B Recoviridae Rotavirus R REO Recoviridae Protoparvovirus M, R Recovirus REO Recoviridae Protoparvovirus M, R Recovirus SEND Paramyxoviridae Respirovirus M, R Recolent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R Recolent Portoparvovirus M, R Recolent Protoparvovirus M, R R Recolent Prot | Parainfluenza virus (type 1)             | PIV-1                                 | Paramyxoviridae                       | Respirovirus                          | Rb           |
| Parainfluenza virus (type 5) PIV-5 Paramyxoviridae Rubulavirus GP, H Pneumocystis carinii PCAR Pneumocystidaceae Pneumocystis R Pneumonia virus of mice PVM Paramyxoviridae Pneumocystis R Pneumonia virus of mice PVM Paramyxoviridae Pneumocystis M, R, GP, H Polyoma virus POLY Polyomavirus M Prospect Hill virus PHV Bunyaviridae Hantavirus M Rabbit adenovirus RbAV Adenoviridae Mastadenovirus Rb Rabbit picobirnavirus RHDV Caliciviridae Lagovirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Ratboti rotavirus ROTA Recviridae Betacronavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacronavirus R Rat cytomegalovirus RCMV Herpesviridae Betaherpesvirus R Rat minute virus RPV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat parvovirus RRAt parvovirus RRAt rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Rotavirus R Rat rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Rotavirus R Reovirus REO Reoviridae Protoparvovirus R Reovirus REO Reoviridae Protoparvovirus R Reovirus REO Reoviridae Protoparvovirus M, R, GP, H Reovirus SEND Paramyxoviridae Respirovirus M, R Rodent Protoparvovirus M, R GP, H Rodent Protoparvovirus M, R GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R Reovirus SEO Bunyaviridae Cardiovirus M, R RF GF, H Revolidae Protoparvovirus M, R RF GF, H RF GF, | Parainfluenza virus (type 2)             | PIV-2                                 | Paramyxoviridae                       | Rubulavirus                           | Rb           |
| Preumocystis carinii PCAR Pneumocystidaceae Pneumocystis R Preumonia virus of mice PVM Paramyxoviridae Pneumovirus M, R, GP, H Polyoma virus POLY Polyomaviridae Polyomavirus M Prospect Hill virus PHV Bunyaviridae Hantavirus M Rabbit adenovirus RbAV Adenoviridae Mastadenovirus Rb Rabbit picobirnavirus RHDV Caliciviridae Lagovirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit rotavirus RPBV Picobirnavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat coronavirus/sialodacryoadentitis virus RCW Herpesviridae Betaceronavirus R Rat minute virus RRW Parvoviridae Protoparvovirus R Rat parvovirus RRV Parvoviridae Protoparvovirus R Rat parvovirus RRV Parvoviridae Protoparvovirus R Rat polyomavirus RAPV Parvoviridae Protoparvovirus R Rat polyomavirus RAPV Parvoviridae Unclassified R Rat rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Notavirus R Ret coronavirus (Theiler's-like virus of rats) RTV Picornaviridae Theilovirus R Recondent Protoparvovirus M, R, GP, H Rodent Protoparvovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R Rodolai virus SEO Bunyaviridae Cardiovirus M, R Rodolai's H-1 virus H-1 Parvoviridae Protoparvovirus R Rotopalasma gondii Toxoo Sarcocystidae Toxoplasma Rb   | Parainfluenza virus (type 3)             | PIV-3                                 | Paramyxoviridae                       | Respirovirus                          | GP           |
| Pneumonia virus of mice PVM Paramyxoviridae Pneumovirus M, R, GP, H Polyoma virus POLY Polyomaviridae Polyomavirus M Prospect Hill Virus PHV Bunyaviridae Hantavirus M Rabbit adenovirus RbAV Adenoviridae Mastadenovirus Rb Rabbit hemorrhagic disease virus RHDV Caliciviridae Lagovirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit picobirnavirus RCTA Reoviridae Rotavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat cytomegalovirus RCMV Herpesviridae Betaherpesvirus R Rat polyomavirus RRV Parvoviridae Protoparvovirus R Rat polyomavirus RRV Parvoviridae Protoparvovirus R Rat polyomavirus RRV Parvoviridae Protoparvovirus R Rat polyomavirus Rat polyomaviridae Unclassified R Rat rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Rotavirus R Rat hellovirus (Theiler's-like virus of rats) RTV Picornaviridae Theilovirus R Recovirus RECO Reoviridae Protoparvovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R Rodolaris H-1 virus Parvoviridae Protoparvovirus R Rodolaris H-1 Parvoviridae Protoparvovirus R Rodolaris H-1 Parvoviridae Protoparvovirus R Rodolaris H-1 Parvoviridae Protoparvovirus R  | Parainfluenza virus (type 5)             | PIV-5                                 | Paramyxoviridae                       | Rubulavirus                           | GP, H        |
| Polyoma virus Polyomavirus Polyomaviridae Polyomavirus M Prospect Hill virus PHV Bunyaviridae Hantavirus M Rabbit adenovirus RbAV Adenoviridae Mastadenovirus Rb Rabbit picobirnavirus RHDV Caliciviridae Lagovirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit rotavirus ROTA Reoviridae Rotavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat cytomegalovirus RCMV Herpesviridae Betaherpesvirus R Rat trinute virus RMV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat polyomavirus Rat polyomavirus Rat polyomavirus Rat polyomavirus Rat rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Rotavirus R Rat totavirus (Theiler's-like virus of rats) RTV Picornaviridae Theilovirus R Recoirus REO Reoviridae Protoparvovirus R Recoirus REO Reoviridae Protoparvovirus R Recoirus REO Reoviridae Theilovirus R Recoirus Recoirus Protoparvovirus R Recoirus REO Reoviridae Protoparvovirus R Recoirus REO Reoviridae Protoparvovirus M, R Recoirus Reprotoparvovirus MS-1 NS-1 Parvoviridae Protoparvovirus M, R Recoirus Respirovirus M, R Recoirus SEND Paramyxoviridae Respirovirus M, R Sendai virus SEND Paramyxoviridae Cardiovirus M, R Theiler's murine encephalomyelitis virus TMEV (GDVII) Picornaviridae Protoparvovirus R Toxoplasma gondii Toxo Sarcocystidae Toxoplasma Rb  | Pneumocystis carinii                     | PCAR                                  | Pneumocystidaceae                     | Pneumocystis                          | R            |
| Prospect Hill virus PHV Bunyaviridae Hantavirus M Rabbit adenovirus RbAV Adenoviridae Mastadenovirus Rb Rabbit hemorrhagic disease virus RHDV Caliciviridae Lagovirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit policipa Rotavirus ROTA Reoviridae Rotavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat coronavirus/sialodacryoadentitis virus RCW Herpesviridae Betacoronavirus R Rat minute virus RMV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat polyomavirus RatipyV2/RPyV2 Polyomaviridae Unclassified R Rat rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Rotavirus R Reto Reovirus (Theiler's-like virus of rats) RTV Picornaviridae Theilovirus R Reco Reoviridae Protoparvovirus R Reco Reoviridae Protoparvovirus R Reco Reoviridae Theilovirus M, R, GP, H Rodent Protoparvovirus NS-1 Parvoviridae Protoparvovirus M, R Resonda virus Sendo Paramyxoviridae Hantavirus M, R Resolurius TMEV (GDVII) Picornaviridae Hantavirus M, R Resolurius TMEV (GDVII) Picornaviridae Protoparvovirus M, R Resolurius TMEV (GDVII) Picornaviridae Protoparvovirus R R Rodoplasma Gondii TOXO Sarcocystidae Toxoplasma Rb   | Pneumonia virus of mice                  | PVM                                   | Paramyxoviridae                       | Pneumovirus                           | M, R, GP, H  |
| Rabbit adenovirus RbAV Adenoviridae Mastadenovirus Rb Rabbit hemorrhagic disease virus RHDV Caliciviridae Lagovirus Rb Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit picobirnavirus ROTA Reoviridae Rotavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat cytomegalovirus RCMV Herpesviridae Betaherpesvirus R Rat minute virus RMV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat polyomavirus Rat polyomavirus Rat polyomavirus Rat rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Rotavirus R Rat theilovirus (Theiler's-like virus of rats) RTV Picornaviridae Theilovirus R Recovirus REO Reoviridae Protoparvovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Protoparvovirus M, R Recolutirus SEND Paramyxoviridae Respirovirus M, R Sendai virus SEO Bunyaviridae Hantavirus M, R Theiler's murine encephalomyelitis virus M, R Theiler's murine encephalomyelitis virus M, R Toxoplasma gondii Toxo Sarcocystidae Toxoplasma Rb   | Polyoma virus                            | POLY                                  | Polyomaviridae                        | Polyomavirus                          | М            |
| Rabbit hemorrhagic disease virus  RPBV  RPBV  Picobirnaviridae  Picobirnavirus  RB  RBBV  Picobirnaviridae  Rotavirus  RB  Rabbit protavirus  ROTA  Reoviridae  Rotavirus  RB  Rat coronavirus/sialodacryoadentitis virus  RCV, SDAV  Coronaviridae  Betacoronavirus  R  Rat cytomegalovirus  RCMV  Herpesviridae  Retat minute virus  RBMV  Parvoviridae  Protoparvovirus  RA  Rat parvovirus  RBPV  Parvoviridae  Protoparvovirus  RA  Rat polyomavirus  Reoviridae  Rotavirus  R  Reoviridae  Rotavirus  R  Reovirus  R  Reoviridae  Rotavirus  R  Reovirus  R  Reoviridae  Rotavirus  M, R, R, R, H  Reovirus  SEND  Paramyxoviridae  Respirovirus  M, R  Respirovirus  M, R  R  Reovirus  R  Revirus  R  Revirus  R  Revirus  R  Revirus  R  Revirus  R  R  R  R  R  Revirus  R  R  R  R  R  R  R  R  R  R  R  R  R  | Prospect Hill virus                      | PHV                                   | Bunyaviridae                          | Hantavirus                            | М            |
| Rabbit picobirnavirus RPBV Picobirnaviridae Picobirnavirus Rb Rabbit rotavirus ROTA Reoviridae Rotavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat cytomegalovirus RCMV Herpesviridae Betaherpesvirus R Rat minute virus RMV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat polyomavirus RatPyV2/RPyV2 Polyomaviridae Unclassified R Rat rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Rotavirus R Rat theilovirus (Theiler's-like virus of rats) RTV Picornaviridae Theilovirus R Reovirus REO Reoviridae Orthoreovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Respirovirus M, R Sendai virus SEND Paramyxoviridae Respirovirus M, R Seoul virus SEO Bunyaviridae Hantavirus M, R Theiler's murine encephalomyelitis virus TMEV (GDVII) Picornaviridae Protoparvovirus R Toxoplasma gondii TOXO Sarcocystidae Toxoplasma Rb  | Rabbit adenovirus                        | RbAV                                  | Adenoviridae                          | Mastadenovirus                        | Rb           |
| Rabbit rotavirus ROTA Reoviridae Rotavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat cytomegalovirus RCMV Herpesviridae Betaherpesvirus R Rat minute virus RMV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat parvovirus Rat polyomavirus Rat polyomavirus Rat rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Rotavirus (Infectious diarrhea of infant rats) RTV Picornaviridae Rotavirus R Reovirus (Theiler's-like virus of rats) RTV Picornaviridae Theilovirus R Recovirus Recovirus REO Reoviridae Orthoreovirus M, R, GP, H Rodent Protoparvovirus NS-1 Parvoviridae Protoparvovirus M, R Sendai virus SEND Paramyxoviridae Respirovirus M, R Sendai virus SEO Bunyaviridae Hantavirus M, R Theiler's murine encephalomyelitis virus TMEV (GDVII) Picornaviridae Protoparvovirus R Toxoplasma gondii Toxoplasma Rb  | Rabbit hemorrhagic disease virus         | RHDV                                  | Caliciviridae                         | Lagovirus                             | Rb           |
| Rabbit rotavirus ROTA Reoviridae Rotavirus Rb Rat coronavirus/sialodacryoadentitis virus RCV, SDAV Coronaviridae Betacoronavirus R Rat cytomegalovirus RCMV Herpesviridae Betaherpesvirus R Rat minute virus RMV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat parvovirus Rat polyomavirus Rat polyomavirus Rat rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Rotavirus (Infectious diarrhea of infant rats) RTV Picornaviridae Rotavirus R Reovirus (Theiler's-like virus of rats) RTV Picornaviridae Theilovirus R Recovirus Recovirus REO Reoviridae Orthoreovirus M, R, GP, H Rodent Protoparvovirus NS-1 Parvoviridae Protoparvovirus M, R Sendai virus SEND Paramyxoviridae Respirovirus M, R Sendai virus SEO Bunyaviridae Hantavirus M, R Theiler's murine encephalomyelitis virus TMEV (GDVII) Picornaviridae Protoparvovirus R Toxoplasma gondii Toxoplasma Rb  | Rabbit picobirnavirus                    | RPBV                                  | Picobirnaviridae                      | Picobirnavirus                        | Rb           |
| Ret coronavirus/sialodacryoadentitis virus  RCV, SDAV  Coronaviridae  Betacoronavirus  R Rat cytomegalovirus  RCMV  Herpesviridae  Betaherpesvirus  R Rat minute virus  RMV  Parvoviridae  Protoparvovirus  R Rat parvovirus  Rat polyomavirus  Reoviridae  Rotavirus  R Reoviridae  Rotavirus  R Reovirus  REO  Reoviridae  Orthoreovirus  M, R, GP, H  Reodent Protoparvovirus NS-1  NS-1  Parvoviridae  Protoparvovirus  M, R  Replaced  Respirovirus  M, R  Replaced  R  Replaced  Replaced  R  R  Replaced  R  Replaced  R  R  R  Replaced  R  R  R  Replaced  R  R  R  R  R  R  R  R  R  R  R  R  R   | <u>'</u>                                 |                                       |                                       |                                       |              |
| Rat cytomegalovirus RCMV Herpesviridae Betaherpesvirus R Rat minute virus RMV Parvoviridae Protoparvovirus R Rat parvovirus RPV Parvoviridae Protoparvovirus R Rat polyomavirus Rat polyomavirus Rat polyomavirus Polyomaviridae Unclassified R Rat rotavirus (infectious diarrhea of infant rats) IDIR/ROTA-B Reoviridae Rotavirus R Rat theilovirus (Theiler's-like virus of rats) RTV Picornaviridae Theilovirus R Recovirus REO Reoviridae Orthoreovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Protoparvovirus M, R Sendai virus SEND Paramyxoviridae Respirovirus M, R Seoul virus SEO Bunyaviridae Hantavirus M, R Theiler's murine encephalomyelitis virus TMEV (GDVII) Picornaviridae Protoparvovirus R Toxoplasma gondii Toxo Sarcocystidae Toxoplasma Rb   |  |                                       |                                       |                                       |              |
| Rat minute virus  Reference of the protoparvovirus  Reference of the proto | -  |                                       |                                       |                                       |              |
| Rat parvovirus Rat parvovirus Rat polyomavirus Rat polyom |  |                                       | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |              |
| Rat polyomavirus Rat theilovirus Rat theilo |  |                                       |                                       | · · · · · · · · · · · · · · · · · · · |              |
| Rat rotavirus (infectious diarrhea of infant rats)  IDIR/ROTA-B  Reoviridae  Rotavirus  RTV  Picornaviridae  Theilovirus  R  Reovirus  REO  Reoviridae  Orthoreovirus  M, R, GP, H  Rodent Protoparvovirus NS-1  NS-1  Parvoviridae  Protoparvovirus  M, R  Reprivirus  SEND  Paramyxoviridae  Respirovirus  M, R  Reprivirus  Seod  Bunyaviridae  Hantavirus  M, R  Theiler's murine encephalomyelitis virus  TMEV (GDVII)  Picornaviridae  Protoparvovirus  M, R  Totoplasma  Reprivorirus  Respirovirus  M, R  Reprivorirus  Re | '  |                                       |                                       | · · · · · · · · · · · · · · · · · · · |              |
| Rat theilovirus (Theiler's-like virus of rats) RTV Picornaviridae Theilovirus R Reovirus REO Reoviridae Orthoreovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Protoparvovirus M, R Sendai virus SEND Paramyxoviridae Respirovirus M, R, GP, H Seoul virus SEO Bunyaviridae Hantavirus M, R Theiler's murine encephalomyelitis virus TMEV (GDVII) Picornaviridae Cardiovirus M, R Totoplasma gondii TOXO Sarcocystidae Toxoplasma Rb  |  |                                       |                                       |                                       |              |
| Reovirus REO Reoviridae Orthoreovirus M, R, GP, H Rodent Protoparvovirus NS-1 NS-1 Parvoviridae Protoparvovirus M, R Sendai virus SEND Paramyxoviridae Respirovirus M, R, GP, H Seoul virus SEO Bunyaviridae Hantavirus M, R Theiler's murine encephalomyelitis virus TMEV (GDVII) Picornaviridae Cardiovirus M, R Toolan's H-1 virus H-1 Parvoviridae Protoparvovirus R Toxoplasma gondii TOXO Sarcocystidae Toxoplasma Rb  | ,  |                                       |                                       |                                       |              |
| Rodent Protoparvovirus NS-1  NS-1  Parvoviridae  Protoparvovirus  M, R  Sendai virus  SEND  Paramyxoviridae  Respirovirus  M, R, GP, H  Seoul virus  SEO  Bunyaviridae  Hantavirus  M, R  Theiler's murine encephalomyelitis virus  TMEV (GDVII)  Picornaviridae  Cardiovirus  M, R  Totoplan's H-1  Parvoviridae  Protoparvovirus  R  Toxoplasma gondii  Toxo  Sarcocystidae  Toxoplasma  Rb  | ,  |                                       |                                       |                                       |              |
| Sendai virus SEND Paramyxoviridae Respirovirus M, R, GP, H Seoul virus SEO Bunyaviridae Hantavirus M, R Theiler's murine encephalomyelitis virus TMEV (GDVII) Picornaviridae Cardiovirus M, R Toolan's H-1 virus H-1 Parvoviridae Protoparvovirus R Toxoplasma gondii TOXO Sarcocystidae Toxoplasma Rb   |  |                                       |                                       |                                       |              |
| Seoul virus         SEO         Bunyaviridae         Hantavirus         M, R           Theiler's murine encephalomyelitis virus         TMEV (GDVII)         Picornaviridae         Cardiovirus         M, R           Toolan's H-1 virus         H-1         Parvoviridae         Protoparvovirus         R           Toxoplasma gondii         TOXO         Sarcocystidae         Toxoplasma         Rb  | Rodent Protoparvovirus NS-1              |                                       | Parvoviridae                          | Protoparvovirus                       |              |
| Theiler's murine encephalomyelitis virus         TMEV (GDVII)         Picornaviridae         Cardiovirus         M, R           Foolan's H-1 virus         H-1         Parvoviridae         Protoparvovirus         R           Foxoplasma gondii         TOXO         Sarcocystidae         Toxoplasma         Rb   | Sendai virus                             | SEND                                  | Paramyxoviridae                       | Respirovirus                          | M, R, GP, H  |
| Toolan's H-1 virus     H-1     Parvoviridae     Protoparvovirus     R       Toxoplasma gondii     TOXO     Sarcocystidae     Toxoplasma     Rb   | Seoul virus                              | SEO                                   | Bunyaviridae                          | Hantavirus                            | M, R         |
| Toxoplasma gondii TOXO Sarcocystidae Toxoplasma Rb   | Theiler's murine encephalomyelitis virus | TMEV (GDVII)                          | Picornaviridae                        | Cardiovirus                           | M, R         |
| , ,  | Toolan's H-1 virus                       | H-1                                   | Parvoviridae                          | Protoparvovirus                       | R            |
| Treponema paraluis-cuniculi TREP Spirochaetales Treponema Rb   | Toxoplasma gondii                        | TOXO                                  | Sarcocystidae                         | Toxoplasma                            | Rb           |
|  | Treponema paraluis-cuniculi              | TREP                                  | Spirochaetales                        | Treponema                             | Rb           |

<sup>\*</sup> Species: M = mouse, R = rat, GP = guinea pig, H = hamster, Rb = rabbit, F = ferret, Z = zebrafish

www.criver.com GLOSSARY OF TERMS | 162

### **RESOURCES**

# **GLOSSARY OF TERMS**

1.877.criver1 | www.criver.com | askcharlesriver@crl.com

| Agent                              | Abbreviation | Family/Order     | Subfam/Genus      | Host Species |
|------------------------------------|--------------|------------------|-------------------|--------------|
| Epstein-Barr virus                 | EBV          | Herpesviridae    | Lymphocryptovirus | Simian       |
| Hepatitis A                        | HEP-A        | Picornaviridae   | Hepatovirus       | Simian       |
| Herpes B virus                     | HBV          | Herpesviridae    | Alphaherpesvirus  | Simian       |
| Herpes virus papio-2               | HVP-2        | Herpesviridae    | Alphaherpesvirus  | Simian       |
| Lymphocryptovirus                  | LCV          | Herpesviridae    | Lymphocryptovirus | Simian       |
| Macaque (Rhesus) rhadinovirus      | MRV          | Herpesviridae    | Rhadinovirus      | Simian       |
| Malaria (Plasmodium)               | MAL          | Plasmodiidae     | Plasmodium        | Simian       |
| Measles virus                      | MV           | Paramyxoviridae  | Morbillivirus     | Simian       |
| Parainfluenza virus (type 5)       | PIV-5 (SV-5) | Paramyxoviridae  | Rubulavirus       | Simian       |
| Simian agent 8                     | SA-8         | Herpesviridae    | Simplexvirus      | Simian       |
| Simian cytomegalovirus             | SCMV/CMV     | Herpesviridae    | Cytomegalovirus   | Simian       |
| Simian foamy virus                 | SFV          | Retroviridae     | Spumavirus        | Simian       |
| Simian immunodeficiency virus      | SIV          | Retroviridae     | Lentivirus        | Simian       |
| Simian rotavirus                   | SA-11        | Reoviridae       | Rotavirus         | Simian       |
| Simian T-lymphotropic virus        | STLV         | Retroviridae     | Deltaretrovirus   | Simian       |
| Simian type D retrovirus           | SRV          | Retroviridae     | Betaretrovirus    | Simian       |
| Simian varicella virus             | SVV          | Herpesviridae    | Varicellovirus    | Simian       |
| Simian virus 40                    | SV-40        | Polyomaviridae   | Polyomavirus      | Simian       |
| Trypanosoma cruzi (Chagas Disease) | T. cruzi/CHA | Trypanosomatidae | Trypanosoma       | Simian       |