

Rh#001.1 *Nitrosomonas europaea* -----
 Rh#001.2 *Nitrosospira multiformis* -----
 Rh#001.3 *Acidobacteria bacterium* -----
 Rh#001.4 *Candidatus Kuenenia* MKKLTLVLYIFFIGLISFLFIEGTKVHASALFEDEFDGKSLNSWIILRENQSDISLTESPGHLR I I SKAEDLWQ INVNK IKLLRRGPHGDFEIVARLTYDPKEK
 Rh#002 *Danio rerio* -----
 Rh#003 *Takifugu rubripes* -----
 Rh#004 *Takifugu rubripes* -----
 Rh#005 *Takifugu rubripes* -----
 Rh#006 *Tetraodon nigroviridis* -----
 Rh#007 *Xenopus tropicalis* -----
 Rh#008 *Chlamydomonas reinhardtii* -----
 Rh#009 *Chlamydomonas reinhardtii* -----MSSVLK I P TAMASGA
 Rh#010 *Apis mellifera* -----
 Rh#011 *Dictyostelium discoideum* -----
 Rh#012 *Dictyostelium discoideum* -----
 Rh#013 *Geodia cydonium* -----
 Rh#014 *Caenorhabditis elegans* -----
 Rh#015 *Caenorhabditis briggsae* -----
 Rh#016 *Caenorhabditis elegans* -----
 Rh#017 *Caenorhabditis briggsae* -----
 Rh#018 *Ciona intestinalis* -----
 Rh#019 *Ciona intestinalis* -----
 Rh#020 *Ciona intestinalis* -----MCLRC
 Rh#021 *Carcinus maenas* -----
 Rh#022 *Anopheles gambiae* -----
 Rh#023 *Drosophila pseudoobscura* -----
 Rh#024 *Drosophila melanogaster* -----
 Rh#025 *Ciona savignyi* -----
 Rh#026 *Ciona savignyi* -----
 Rh#027 *Ciona savignyi* -----
 Rh#028 *Drosophila yakuba* -----
 Rh#029 *Danio rerio* -----
 Rh#030 *Salmo salar* -----
 Rh#031 *Takifugu rubripes* -----
 Rh#032 *Tetraodon nigroviridis* -----
 Rh#033 *Xenopus laevis* -----
 Rh#034 *Xenopus tropicalis* -----
 Rh#035 *Gallus gallus* -----
 Rh#036 *Mus musculus* -----
 Rh#037 *Oncorhynchus mykiss* -----
 Rh#038 *Rattus norvegicus* -----
 Rh#039 *Bos taurus* -----
 Rh#040 *Callithrix jacchus* -----
 Rh#041 *Canis familiaris* -----
 Rh#042 *Cebus apella* -----
 Rh#043 *Macaca fascicularis* -----
 Rh#044 *Macaca mulatta* -----
 Rh#045 *Sus scrofa* -----
 Rh#046 *Gorilla gorilla* -----
 Rh#047 *Papio papio* -----
 Rh#048 *Pongo pygmaeus* -----
 Rh#049 *Pan troglodytes* -----
 Rh#050 *Homo sapiens* -----
 Rh#051 *Papio hamadryas* -----
 Rh#052 *Takifugu rubripes* -----
 Rh#053 *Danio rerio* -----
 Rh#054 *Tetraodon nigroviridis* -----
 Rh#055 *Ambystoma tigrinum* -----
 Rh#056 *Xenopus laevis* -----
 Rh#057 *Xenopus tropicalis* -----
 Rh#058 *Gallus gallus* -----
 Rh#059 *Mus musculus* -----

Rh#060 *Rattus norvegicus*
Rh#061 *Bos taurus*
Rh#062 *Canis familiaris*
Rh#063 *Cebus apella*
Rh#064 *Gorilla gorilla*
Rh#065 *Hylobates sp*
Rh#066 *Macaca fascicularis*
Rh#067 *Macaca mulatta*
Rh#068 *Pongo pygmaeus*
Rh#069 *Pan troglodytes*
Rh#070 *Homo sapiens*
Rh#071 *Danio rerio*
Rh#072 *Takifugu rubripes*
Rh#073 *Oryctolagus cuniculus*
Rh#074 *Oryzias latipes*
Rh#075 *Tetraodon nigroviridis*
Rh#076 *Xenopus tropicalis*
Rh#077 *Xenopus laevis*
Rh#078 *Gallus gallus*
Rh#079 *Mus musculus*
Rh#080 *Rattus norvegicus*
Rh#081 *Canis familiaris*
Rh#082 *Bos taurus*
Rh#083 *Hylobates sp*
Rh#084 *Sus scrofa*
Rh#085 *Macaca mulatta*
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Rh#105 *Pongo pygmaeus*
Rh#106 *Pan troglodytes*
Rh#107 *Homo sapiens*
Rh#108 *Takifugu rubripes*
Rh#109 *Tetraodon nigroviridis*
Rh#110 *Homo sapiens*
Rh#111 *Gallus gallus*

Rh#001.1 *Nitrosomonas europaea* -----MSKHL^CFTAFSSIALFLLC-----
 Rh#001.2 *Nitrosospora multiformis* -----MKKSLCMTLCGTAGFFLLY-----
 Rh#001.3 *Acidobacteria bacterium* -----MQKKICV^LG-SACAWWLLG-----
 Rh#001.4 *Candidatus Kueningenia* FQQA^GIILYED^EENYVMLTRQ^KDDA^QHVVM^SRSV^SIK^TE^GAK^SAA^TSLTTLYLKLTKSGESISGAFSNGETWTTVDHISGLHFKHP^QV^GLV^GFNAQQKTANADFD
 Rh#002 *Danio rerio* -----MKNKSNLRLPALIFASEVVIVVLYACFVYDD-----
 Rh#003 *Takifugu rubripes* -----MNTS^TSLRVRLPALV^LLV^LQV^VIITLYALFVYDD-----
 Rh#004 *Takifugu rubripes* -----MHTAVRLNEV^IIKK^SKA^KLVLLNMPGPPRNR-----
 Rh#005 *Takifugu rubripes* -----MKRQSKSLRVRLPVFVFAEVAFVILYAA^FVYDE-----
 Rh#006 *Tetraodon nigroviridis* -----MNTS^TSLRVRLPV^LLV^LLV^LQ^LILISLYAIFVYDN-----
 Rh#007 *Xenopus tropicalis* -----MSIVFNPSVRCQLPV^LLL^LL^LL^LQ^GILIGLFAVFLSYDE-----
 Rh#008 *Chlamydomonas reinhardtii* -MQALPPKIPASVSGHGTQSRHSLDW^SHIGLPSRE^TQLRAGFVPSAA-----
 Rh#009 *Chlamydomonas reinhardtii* ASRRHSLDWSHVGLPPRE^PQLRTG^FAPSVIAIAAVIVGLFFGLTYTE-----
 Rh#010 *Apis mellifera* -----MFDERNPITQSL^SARYLRFAR-----
 Rh#011 *Dictyostelium discoideum* -----MTHNDDDDHKWTTKRKEPIFF^TIVILFIQIFM^IICFAAL^TGYDT-----
 Rh#012 *Dictyostelium discoideum* -----MSKDEHKLPLSKRKESIFMMILFAQVFMV^LFSVWRYSK-----
 Rh#013 *Geodia cydonium* -----MDWAKMLPGFLLV^FQVIFILYGLLVRYDD-----
 Rh#014 *Caenorhabditis elegans* -----MWSVLHRRQFAIAGLMQTVFIVLFAKYVKYID-----
 Rh#015 *Caenorhabditis briggsae* -----MWSVLHRRQFAIAGLMQTVFILLFAKYVKYID-----
 Rh#016 *Caenorhabditis elegans* -----MRSPLHQ^NQLTLILGLFQV^FFLVIFALYGSYDA-----
 Rh#017 *Caenorhabditis briggsae* -----MRSPLHQ^NQLTLILGLFQAAFLVTFALF^GSYAP-----
 Rh#018 *Ciona intestinalis* -----MRGKFS^GFLLLPQILFIILFGV^FVEYDT-----
 Rh#019 *Ciona intestinalis* -----MGNTRGKATALLVAQAII^LLV^LFGLFVDYDV-----
 Rh#020 *Ciona intestinalis* PIPY^MVRYILKHLFFAHSNTRGKATALLVAQAII^LLV^LFGLFVDYDV-----
 Rh#021 *Carcinus maenas* -----MKLSHG^HGYLALGL^LLVFFILFCIFVRYHP-----
 Rh#022 *Anopheles gambiae* -----MHTPGSS^TAGYALLIVQV^FIIVFG^FCTDYAK-----
 Rh#023 *Drosophila pseudoobscura* -----MHS^PAAK^VSGYIVLMIVQII^FLV^LFWLVFVRYEK-----
 Rh#024 *Drosophila melanogaster* -----MHS^PAAK^VSGYV^VLMIVQII^FLV^LFWLVFVRYEK-----
 Rh#025 *Ciona savignyi* -----MSNTRGKATALLAAEAVFLL^LFGLFVDYDV-----
 Rh#026 *Ciona savignyi* -----MSNTRGKATALLVAQAIFLV^LFGLFVDYDV-----
 Rh#027 *Ciona savignyi* -----MRGKFS^GFLLVPQIIFIVLYGV^FVQYDV-----
 Rh#028 *Drosophila yakuba* -----MHTPAAK^VSGYV^VLMIVQII^FLV^LFWLVFVRYEK-----
 Rh#029 *Danio rerio* -----MAPQYAPS^LRSRLPLVAFLLE^TLFL^LLVFWKIEK-----
 Rh#030 *Salmo salar* -----MAPQYAQS^LRFRLLP^LLLF^LLQ^TGFIVVFI^FYVDIEQ-----
 Rh#031 *Takifugu rubripes* -----MAPQYAPS^LRSRLAP^LLL^LLQ^TGMG^FIAI^VFYVEIDT-----
 Rh#032 *Tetraodon nigroviridis* -----MAPQYAPS^LRSRLAP^LLL^LLQ^TGFIVVFAFYVDIET-----
 Rh#033 *Xenopus laevis* -----MPPRYT^TSLRGR^LPWAILFL^LQ^TTFIFIL^FLHC^FQDY-----
 Rh#034 *Xenopus tropicalis* -----MPPRYT^TSLRGR^LPWAILLL^LQ^TTFIFIL^FLHC^FQHDY-----
 Rh#035 *Gallus gallus* -----MPS^TYPS^FRHSVP^WLILLLEAV^FIVLSY^FFLDSIVD-----
 Rh#036 *Mus musculus* -----MGCKY^PRS^LRCCL^PLWALEV^QTAFSLL^FCF^FPHDT-----
 Rh#037 *Oncorhynchus mykiss* -----MAPQYAQS^LRFRLLP^LLLF^LLQ^TGFIVVFI^VYVDIEQ-----
 Rh#038 *Rattus norvegicus* -----MGSKY^PRS^LRCCL^PLWAFGL^QVT^FILLFY^FLIGQDP-----
 Rh#039 *Bos taurus* -----MGSKY^QKS^VRVWLP^LCAIT^LEVIFIVIFF^FTSYSA-----
 Rh#040 *Callithrix jacchus* -----MGSKY^PPS^VRGCL^PLWALT^LEAA^FILV^FFF^FTYDT-----
 Rh#041 *Canis familiaris* -----MGSKY^PPS^VRGCL^PLWTIA^LE^LLAFLVIF^FFF^FTSYDT-----
 Rh#042 *Cebus apella* -----MGSKY^PPS^VRGCL^PLWALT^LEAA^LILV^FFF^FTYDT-----
 Rh#043 *Macaca fascicularis* -----MSSKY^PRS^VRCCL^PLWALT^LEAA^LILL^FFF^FTYDA-----
 Rh#044 *Macaca mulatta* -----MSSKY^PRS^VRCCL^PLWALT^LEAA^LILL^FFF^FTYDA-----
 Rh#045 *Sus scrofa* -----MGSKY^QRS^VRGCL^PPWILT^LEVILE^LV^FFF^FTSYDT-----
 Rh#046 *Gorilla gorilla* -----MSSKY^PRS^VRCCL^PLCAALT^LEAA^LTLL^FYFF^FTHYDA-----
 Rh#047 *Papio papio* -----MSSKY^PRS^VRCCL^PLWALT^LEAA^LILL^FFF^FTYDA-----
 Rh#048 *Pongo pygmaeus* -----MSSKY^PRS^VRCCL^PLWALT^LEAA^LILL^FFF^FTYDA-----
 Rh#049 *Pan troglodytes* -----MSSKY^PRS^VRCL^PLCAALT^LEAA^LILL^FYFF^FTYDA-----
 Rh#050 *Homo sapiens* -----MSSKY^PRS^VRCL^PLWALT^LEAA^LILL^FYFF^FTHYDA-----
 Rh#051 *Papio hamadryas* -----MR^LK^FLMAIV^LEIAMIV^LFALFVEYEM-----
 Rh#052 *Takifugu rubripes* -----MPAYA^TNMR^LK^FPIAL^LTLE^LL^LIVL^FAV^FVYDD-----
 Rh#053 *Danio rerio* -----MPTYSTNMR^LK^FILALILEI^TIVLYALFVYDD-----
 Rh#054 *Tetraodon nigroviridis* -----MPAYA^TNMR^LK^FPVLA^LTLEI^TILFVAVVYDD-----
 Rh#055 *Ambystoma tigrinum* -----MALPFA^TNMR^FK^SSLALS^LQVILILFAIFVSYDT-----
 Rh#056 *Xenopus laevis* -----MR^FRLPALALALEIIII^LFGIV^FVYDT-----
 Rh#057 *Xenopus tropicalis* -----MSYS^TNMR^FRLPALALEILEIIII^LFGIV^FVRYDT-----
 Rh#058 *Gallus gallus* -----MR^FK^FSIIALL^LEVV^FIIL^FGLFVEHDT-----
 Rh#059 *Mus musculus* -----MR^FK^FPLMAIS^LLEVAMIV^LFGLFVEYET-----

Rh#060 *Rattus norvegicus* -----MRFKFSLIA^SLSLE^VVMIV^SFA^LFVEY^ET
 Rh#061 *Bos taurus* -----MRFKFPLMAIGLE^VVMIVL^FALFVQY^ET
 Rh#062 *Canis familiaris* -----MRFI^FPTIAV^LLEAS^MIVL^FGFFVKY^ET
 Rh#063 *Cebus apella* -----MAIGLDIFMIVL^FG^LLFVQY^ET
 Rh#064 *Gorilla gorilla* -----MRFTFPLMAIVLEIAMIVL^FG^LLFVEY^ET
 Rh#065 *Hylobates sp* -----MRFKFPLMAIVLEIAMIVL^FG^LLFVEY^ET
 Rh#066 *Macaca fascicularis* -----MR^LKFPLMAIVLEIAMIVL^FALFVEY^EM
 Rh#067 *Macaca mulatta* -----MR^LKFPLMAIVLEIAMIVL^FG^LLFVEY^EM
 Rh#068 *Pongo pygmaeus* -----MR^FNFPLMAIVLEIAMIVL^FG^LLFVEY^EM
 Rh#069 *Pan troglodytes* -----MRFTFPLMAIVLEIAMIVL^FG^LLFVEY^ET
 Rh#070 *Homo sapiens* -----MRFTFPLMAIVLEIAMIVL^FG^LLFVEY^ET
 Rh#071 *Danio rerio* -----MAESTNLRRLPLICILEVILILFGVLVEYND
 Rh#072 *Takifugu rubripes* -----MTDAA TNMR^LKLPITCFILEILILFGTLVQYDY
 Rh#073 *Oryctolagus cuniculus* -----MAKSPRRVAGRRLLLP^LLCLFFQGA^TALFAIFVRYDQ
 Rh#074 *Oryzias latipes* -----MTDPS TNMR^LKLPITCFILQIILILFGVLVQYDE
 Rh#075 *Tetraodon nigroviridis* -----MADVSTSMRLKLPVVCFILEILILFGALVQYDY
 Rh#076 *Xenopus tropicalis* -----MTGYS TNMR^IKLPV^FCLLLEFITIILFAVFRYDH
 Rh#077 *Xenopus laevis* -----MTGYS TNMR^IKLP^FCLILQFITIILFAVFRYDH
 Rh#078 *Gallus gallus* -----MAERAAARLHLSGLCFFLQLLTIVLFA^TFVRYSP
 Rh#079 *Mus musculus* -----MARVPRHRRLVLP^LLCLL^FQGA^TALLFAIFVRYNH
 Rh#080 *Rattus norvegicus* -----MARIPRHRRLVLP^LLCLL^FQGA^TSLLFAIFVRYNH
 Rh#081 *Canis familiaris* -----MARS^PRRAGAPRLQLP^LLCLL^LLQGA^TALFAVFRYNH
 Rh#082 *Bos taurus* -----MAWS^PRRHSA^GRR^LLQLP^LLCLL^LLQGA^TALFAVFRYNR
 Rh#083 *Hylobates sp* -----MAGSPSRAAGRR^LLQLP^LLCL^FLQGA^TAVLFAVFRYNH
 Rh#084 *Sus scrofa* -----MAGSSRRAGGR^LLQLP^LLCLL^LLQGA^TALFAVFRYNH
 Rh#085 *Macaca mulatta* -----MAGSPSRAAGRR^LLQLP^LLCL^FLQGA^TAVLFAVFRYNH
 Rh#086 *Papio hamadryas* -----MAGSPSRAAGRR^LLQLP^LLCL^FLQGA^TAVLFAVFRYNH
 Rh#087 *Pongo pygmaeus* -----MAGSPSRAAGRR^LLQLP^LLS-FLQGA^TAVLFAVFRYNH
 Rh#088 *Gorilla gorilla* -----MAGSPSRAAGRR^LLQLP^LLCL^FLQGA^TAVLFAVFRYNH
 Rh#089 *Pan troglodytes* -----MAGSPSRAAGRR^LLQLP^LLCL^FLQGA^TAVLFAVFRYNH
 Rh#090 *Homo sapiens* -----MAGSPSRAAGRR^LLQLP^LLCL^FLQGA^TAVLFAVFRYNH
 Rh#091 *Oncorhynchus mykiss* -----MGNFIQGCKDYFSQQKN^TIRLTL^PVVC^FVWQ^IAMILFGV^FIRYDE
 Rh#092 *Danio rerio* -----MGNCFGSRGICDRPKNTNIRLSLPAVC^FKWQ^VSMILFGV^FIRYNE
 Rh#093 *Takifugu rubripes* -----MGNFFGRQRNAV^RVSLPAVC^FVWQ^IAMILFGV^FIRYNE
 Rh#094 *Danio rerio* -----MVKNTNIRISLPAVC^FVWQ^IAMILFGV^FIRYNE
 Rh#095 *Oryctolagus cuniculus* -----MAWNTNLRWR^LP^LLCLV^LEVAMV^LL^FGLFVRYSP
 Rh#096 *Tetraodon nigroviridis* -----MGCVQSFRNFCDRPKNTN^RISLPAVC^FVWQ^IAMILFGV^FIRYNE
 Rh#097 *Oryzias latipes* -----MGNCCEASNFFGPQKN^TN^RVSLPAVC^FVWQ^IAMIVL^FGV^FIRYDE
 Rh#098 *Xenopus tropicalis* -----MR^LRLP^VVC^FLWEIAMIVL^FG^IFVRYND
 Rh#099 *Xenopus laevis* -----MLRNSNMRWR^LP^LIC^FVWEIAMIVL^FG^IFVRYND
 Rh#100 *Gallus gallus* -----MERPRHQGMTKNTYMRWR^LP^LICLLWEVAMIILFGV^FVHFGP
 Rh#101 *Mus musculus* -----MAWNTNLRGR^LPITCLILQV^TTMV^LL^FGV^FFRYDI
 Rh#102 *Rattus norvegicus* -----MAWNTNLRGR^LPITCLILQV^TTMV^LL^FGV^FFRYDI
 Rh#103 *Bos taurus* -----MIWNTNLRWR^LPVACL^LLEVALIALFGV^FFRYDM
 Rh#104 *Canis familiaris* -----MVWNTNLRWR^LPV^TCLLLQVALV^LL^FGV^FFRYDM
 Rh#105 *Pongo pygmaeus* -----MAWNTNLRWR^LP^LTCLLLE^VVMVILFGV^FFRYDF
 Rh#106 *Pan troglodytes* -----MAWNTNLRWR^LP^LTCLLLQVVMVILFGV^FFRYDF
 Rh#107 *Homo sapiens* -----MAWNTNLRWR^LP^LTCLLLQVIMVILFGV^FFRYDF
 Rh#108 *Takifugu rubripes* -----MGCVQSFR^TLCDR^PKNTN^RISLPAVC^FVWQ^IAMILFGV^FIRYDE
 Rh#109 *Tetraodon nigroviridis* -----MGNFFGRQRTAY^RVSLPAV^SFVWQ^IAMILFGV^FIRYDK
 Rh#110 *Homo sapiens* -----MSSKY^PRSV^RRC^LPLWAL^TLEAALILLFY^FFT^HYDA
 Rh#111 *Gallus gallus* -----MPS^TY^PSFR^HSV^PWLL^FLEAV^FIVL^FY^FFVSDVD

| | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | |
|-------------------------------------|-------------------------------------|-----------|---|---|---|---|---|---|-------------|
| Rh#001.1 Nitrosomonas europaea | - FS -SWA - | - - - - - | - SAVAP A -E INEARLVAQYNY | - - - - - | - S I N I L A M L L V G F G F L M V - | - F V R R - | - Y G F S A T T G T Y L V V A T G L P L Y I L L - | - R A N - - | |
| Rh#001.2 Nitrosospira multififormis | - LS -AWA - | - - - - - | - S E G G T A P Q L N E A R Q V A Q Y N Y - | - - - - - | - V I H I L A M L L V G F G F L M V - | - F V K R - | - Y G F G A T T G T Y L V V A V G L P L Y I L L - | - R A N - - | |
| Rh#001.3 Acidobacteria bacterium | - L P -AWA - | - - - - - | - Q G - - T S H V E T S L R Q V A Q Y N Y - | - - - - - | - S I H I L A M L L V G F G F L M V - | - F V K K - | - Y G S A T T G T Y L V V G A G I P L Y L L L - | - R L T - | |
| Rh#001.4 Candidatus Kuenenia | F F K - I S A - | - - - - - | - I G G G V A S A V E E L L E V N K Y N K - | - - - - - | - S I H V M A M L M V G F G F L M V - | - Y V K R - | - Y G W G A A T A Y I A V S F V I P Y Y M Y L - | - K S K - | |
| Rh#002 Danio rerio | - H A N A L L Q - | - - - - - | - N N Q T - R H M E N S F Y Q N Y P F - | - - - - - | - F A D I Q V M I F I G F G C L L A - | - F F R R - | - Y G F G G M V F N F L V A T F T I Q W A I L I - | - Q G F - - | |
| Rh#003 Takifugu rubripes | - N A D A K M Q - | - - - - - | - N N E T - N P M E N S V Y R D Y P F - | - - - - - | - F A D V Q V M I F I G F G C L L A - | - F F R F - | - Y G F S G M V F N F L T A T F T I Q W A I L V - | - Q G F - - | |
| Rh#004 Takifugu rubripes | - T N - | - - - - - | - Q T - D P L E N P V Y R D Y P F - | - - - - - | - F T D I Q V M I F I G F G C L L A - | - F F R L - | - Y G F G G M A F N F L M A T F A I Q W A I L V - | - Q G Y - - | |
| Rh#005 Takifugu rubripes | - H A D A K F Q T N - | - - - - - | - Q T - D P L E N P V Y R D Y P F - | - - - - - | - F T D I Q V M I F I G F G C L L A - | - F F R L - | - Y G F G G M A F N F L M A T F A I Q W A I L V - | - Q G Y - - | |
| Rh#006 Tetraodon nigroviridis | - N A N A K M Q - | - - - - - | - N N E T - N P M D N S V Y R D Y P F - | - - - - - | - F A D V Q V M I F I G F G C L L A - | - F F R F - | - Y G F S G M V F N F L T A T F T I Q W A I L V - | - Q G F - - | |
| Rh#007 Xenopus tropicalis | - L S S A T S - | - - - - - | - L A N I T - V A N T H D L D T Y P L - | - - - - - | - F K D V Q L M L F V G L G L L L S - | - F L K L - | - Y G F G M A L N L V I A N F S I Q W A V L V - | - Q G F - - | |
| Rh#008 Chlamydomonas reinhardtii | - V V I V I F V G L F F G - | - - - - - | - L T Q Y T E L G - T N A Q E E V D R F Y K Y - | - - - - - | - L V D V N I M V W I G F G F L M T - | - F M R R - | - Y G Y G A V A L N Y F A S A L M F L E A I L M - | - I G A - | |
| Rh#009 Chlamydomonas reinhardtii | - L A E N - | - - - - - | - A Q E Q V E R Y Y K Y - | - - - - - | - F I D V Q V M I F I G F G F L M T - | - F M R R - | - Y S G A V S L N Y F A S A L M F L E A I L M - | - I G A - | |
| Rh#010 Apis mellifera | - K N D D P - | - - - - - | - - - - - | - D Q P D F P V I M H S - | - - - - - | - L Y Q D V H V M I W I G F G F L M T - | - F L R R - | - Y G Q S A V G L T F L L G A I L V Q V A I I C - | - E G V - |
| Rh#011 Dictyostelium discoideum | - N K N Y T G S E N P - | - - - - - | - D E F K G - G E V Q E R V N N F Y G Y - | - - - - - | - F R D I N I M I F F G F G F L M T - | - F L R R - | - Y G Y S A L G Y T F I I S A L V S Q W S V L L - | - N G F - - | |
| Rh#012 Dictyostelium discoideum | - N E V N Y S T L T P - | - - - - - | - E Q L Q E L E A T G - G V V Q E E V T N I Y G Y - | - - - - - | - F R D I N I M I F F G F G F L M T - | - F L R R - | - Y G Y S A L G Y T F I I S A L V A Q W S V L I - | - Y G F - - | |
| Rh#013 Geodia cydonium | - T G D A I R N D T T I S - | - - - - - | - D V S N - L D S Y R S T L K V Y P F - | - - - - - | - F Q D V H V M I F V G F G F L M T - | - F L R R - | - Y G F G S I S F N L L L A S F A I Q W S T L T - | - S G V - - | |
| Rh#014 Caenorhabditis elegans | - P L D D S R - | - - - - - | - - - - - | - R V Y S G T D Y P L - | - - - - - | - F Q D V H L M I F V G F G F L M A - | - F L K R - | - Y G F S A V S V N L L L S A F V I Q F A M L L - | - R G F - - |
| Rh#015 Caenorhabditis briggsae | - P L D D S R - | - - - - - | - - - - - | - R V Y S G T D Y P L - | - - - - - | - F Q D V H L M I F V G F G F L M A - | - F L K R - | - Y G F S A V S V N L L L S A F V I Q F A M L L - | - R G F - - |
| Rh#016 Caenorhabditis elegans | - S A L P S - | - - - - - | - E T K N - V E E A A R M T N L Y P L - | - - - - - | - F Q D T H V M I F I G F G F L M T - | - F L K R - | - Y G F S A V S I N M L L A V F T I Q W G I I V - | - R G M - | |
| Rh#017 Caenorhabditis briggsae | - S A L P S - | - - - - - | - N G K D - V E E A T R M T N L Y P L - | - - - - - | - F Q D T H V M I F I G F G F L M T - | - F L K R - | - Y G F S A V S I N M L L A V F T I Q W G I I V - | - R G M - | |
| Rh#018 Ciona intestinalis | - V A G P R - | - - - - - | - N A S S - T A G I E E F D N L Y P M - | - - - - - | - F Q D V H V M I F I G F G F L M T - | - F L K R - | - Y G F G S V G F N F M L A A F V I Q W T I L M - | - R G C - - | |
| Rh#019 Ciona intestinalis | - A A G P R - | - - - - - | - N N S - L T T H T T L A H Y P I - | - - - - - | - Y Q D V H V M M L I G F G F L M T - | - F L K R - | - H G F G S V G F N F L L T C Y V I E W S T L V - | - N G W - - | |
| Rh#020 Ciona intestinalis | - A A G P R - | - - - - - | - N N S - L T T H T T L A H Y P I - | - - - - - | - Y Q D V H V M M L I G F G F L M T - | - F L K R - | - H G F G S V G F N F L L T C Y V I E W S T L V - | - N G W - - | |
| Rh#021 Carcinus maenas | - D A N A R H H P L V N G - | - - - - - | - T K L E D K L D H Y K - S D D P W A H S R T Y P M - | - - - - - | - F Q D V H V M I F I G F G F L M M - | - F L K R - | - Y G L S A V G M N F L I A A L C L Q W A I L V - | - N G F - - | |
| Rh#022 Anopheles gambiae | - E L L P V K N E T A R - | - - - - - | - V H S P - A E S E G G N L R K Y P H - | - - - - - | - F Q D I H V M I F A G F A F L M T - | - F L K R - | - Y G F S A S G L N L L V A A L V Q W A I M - | - R G C - - | |
| Rh#023 Drosophila pseudoobscura | - A A M P P A L G - | - - - - - | - A E D - A G S A N E H V S K Y P Q - | - - - - - | - F Q D I Q V M I F I G F G F L M T - | - F L R K - | - Y G Y S A T G F T L F M A S L V V Q W S V L M - | - K G F - - | |
| Rh#024 Drosophila melanogaster | - T A L P L A I D - | - - - - - | - A E D - A G S A N E H V S K Y P Q - | - - - - - | - F Q D I Q V M I F I G F G F L M T - | - F L R K - | - Y G Y S A T G F T L F M A A L V V Q W A V L M - | - K G F - - | |
| Rh#025 Ciona savignyi | - A A G P R - | - - - - - | - N N S - L S M D T T L D H Y P I - | - - - - - | - Y Q D V H V M M L I G F G F L M T - | - F L K R - | - H G F G S V G F N F L L T C F I I Q W S T L V - | - N G W - - | |
| Rh#026 Ciona savignyi | - S A G P R - | - - - - - | - N S S - L S T H S T L A H Y P M - | - - - - - | - Y Q D V H V M M V I G F G F L M T - | - F L K R - | - H G F G S V G F N F L L T C F V I Q W S I L V - | - N G W - - | |
| Rh#027 Ciona savignyi | - Q A G P R - | - - - - - | - N A S D - T T S S E H F D K L Y P M - | - - - - - | - F Q D V H V M I F I G F G F L M T - | - F L R R - | - Y G F G S V G F N F M L A A F V I Q W T I L I - | - R G C - - | |
| Rh#028 Drosophila yakuba | - T V L P L A I D - | - - - - - | - A E D - A G S A N E H V S K Y P Q - | - - - - - | - F Q D I Q V M I F I G F G F L M T - | - F L R K - | - Y G Y S A T G F T L F M A A L V V Q W A V L M - | - K G F - - | |
| Rh#029 Danio rerio | - Q E Y R R S - | - - - - - | - E S E P F V H S Y A D - | - - - - - | - F Q D V H V M I F M G F G F L A T - | - F L V R - | - Y G L S G S G F N L L A A M A V Q W A V L M - | - N G F - - | |
| Rh#030 Salmo salar | - N V Q T K - | - - - - - | - Q H A F T N Y S - | - - - - - | - E F Q D V H V M V I L G F G F L A T - | - F L V R - | - Y S F S G A G F T L L V A A M A V Q W A V I L - | - N G V - - | |
| Rh#031 Takifugu rubripes | - H T D L T R - | - - - - - | - - - - - | - D F Y A T - | - - - - - | - F Q D V Q V I V F L G F G F L G S - | - F L V R - | - Y G F S S I G F N L L V A A V A T Q W A I V L - | - N G M - - |
| Rh#032 Tetraodon nigroviridis | - H S F N - | - - - - - | - T D L T S N F Y A E - | - - - - - | - F Q D V H V I V F L G F G F L S T - | - F L I R - | - Y G F S G V G F N L L V A A T A T Q W A I L L - | - N G L - - | |
| Rh#033 Xenopus laevis | - T A D A K - | - - - - - | - Y L Q T Y P A - | - - - - - | - L Q D V N V I I L G F G F L F G - | - S L K K - | - F V F S G V A F N F L I T T L G I Q W A I I V - | - D S F - - | |
| Rh#034 Xenopus tropicalis | - T P N - | - - - - - | - A K Y I Q K Y P G - | - - - - - | - I Q D V N V I I L G F G F L F G - | - S L K K - | - F V F S G V A F N F L I T A L G I Q W A I I V - | - D S F - - | |
| Rh#035 Gallus gallus | - A H F P - | - - - - - | - - - - - | - Y P D - | - - - - - | - L Q D V S H M L I F G F G F L L T - | - F L K R - | - Y S F S S T G F S L L I V I L G V Q C S I L M - | - E H V - |
| Rh#036 Mus musculus | - A Q V D H R - | - - - - - | - F M A S Y Q V - | - - - - - | - L R N L T L M A A L G F G F L S S - | - S F R R - | - H S W S S V A F N L F M L A L G V Q G T I L L - | - D H F - - | |
| Rh#037 Oncorhynchus mykiss | - N V Q T K - | - - - - - | - Q H A F N N Y S - | - - - - - | - E F Q D V H V M V I L G F G F L A T - | - F L V R - | - Y S F S G A G F T L L V A A M A V Q W A V I L - | - N G V - - | |
| Rh#038 Rattus norvegicus | - I Q A D H K - | - - - - - | - F M A I Y Q V - | - - - - - | - I Q D L T L V A A L G F G F L S S - | - S F R R - | - H G W S S V A F S F F M L A L G V Q G T I L L - | - D Y F - - | |
| Rh#039 Bos taurus | - S V D E Q K - | - - - - - | - K L L R D Y R A - | - - - - - | - F Q D V F I M A T F G F G F L N T - | - S L R R - | - H C W S S I A F N L F L L V L G V Q L A A L L - | - D G F - - | |
| Rh#040 Callithrix jacchus | - S L E D - | - - - - - | - Q K V L M A F Y Q V - | - - - - - | - C Q D L T V M A A L G L G F L T S - | - S L R R - | - H S W S S V A F N L F M L A L G V Q W A I L L - | - D G F - - | |
| Rh#041 Canis familiaris | - S S Q D P - | - - - - - | - K E L M G I Y R V - | - - - - - | - L Q D V T I M A A L G F G F L N S - | - S L R R - | - Y G W S S V A F N L F L L A L G V Q W A V L V - | - D G F - - | |
| Rh#042 Cebus apella | - S L E D - | - - - - - | - Q K V L M A F Y Q V - | - - - - - | - C Q D L T V M A A L G L G F L T S - | - S L R R - | - H G W S S V A F N L F L L A L G V Q W A I L L - | - D G F - - | |
| Rh#043 Macaca fascicularis | - S L E D Q K G - | - - - - - | - L V A S Y Q V - | - - - - - | - C Q D L T V M A V L G L G F F T S - | - N L R R - | - N S W S S V A F N L F L L A L G V Q W A I L L - | - D G F - - | |
| Rh#044 Macaca mulatta | - S L E D Q K G - | - - - - - | - L V A S Y Q V - | - - - - - | - C Q D L T V M A V L G L G F F T S - | - N L R R - | - N S W S S V A F N L F L L A L G V Q W A I L L - | - D G F - - | |
| Rh#045 Sus scrofa | - S S K A Q K - | - - - - - | - E F L G T Y Q G - | - - - - - | - F Q D V V I I A A L G L G F L N T - | - S L R R - | - H C W S S V A F N L F L L A L G V Q L T L L L - | - D G F - - | |
| Rh#046 Gorilla gorilla | - S L E D Q K G - | - - - - - | - L V A S Y Q V G - | - - - - - | - Q D L T V M A A I G F G F L T S - | - S F R G - | - H S W S S V A F N L F M L A L G V Q W A I L L - | - D G F - - | |
| Rh#047 Papio papio | - S L E D Q K G - | - - - - - | - L V A S Y Q V - | - - - - - | - C Q D L T V M A V L G L G F F T S - | - N L R R - | - N S W S S V A F N L V L L A L G V Q W A I L L - | - D V F - - | |
| Rh#048 Pongo pygmaeus | - S L E D Q K G - | - - - - - | - L V A S Y Q V - | - - - - - | - C Q D L T V M A V L G L G F F T S - | - N L R R - | - N S W S S V A F N L V L L A L G V Q W A I L L - | - D G F - - | |
| Rh#049 Pan troglodytes | - S L E D Q K G - | - - - - - | - L V A S Y Q V G - | - - - - - | - Q D L T V M A A I G F G F L T S - | - S F R R - | - H S W S S V A F S L F M L A L G V Q W A I L L - | - D G F - - | |
| Rh#050 Homo sapiens | - S L E D Q K G - | - - - - - | - L V A S Y Q V G - | - - - - - | - Q D L T V M A A L G L G F L T S - | - N F R R - | - H S W S S V A F N L F M L A L G V Q W A I L L - | - D G F - - | |
| Rh#051 Papio hamadryas | - D Q T T P Q - | - - - - - | - Q L N I T T - S T D M G K F L E L Y P L - | - - - - - | - F Q D V H V M I F V G F G F L M T - | - F L K K - | - Y G F S S V G I N L L I A A L G L Q W G T V V - | - Q G I - - | |
| Rh#052 Takifugu rubripes | - G K P S S D P H D P - | - - - - - | - H D P H A G N - H T Q E G A P M D L Y P M - | - - - - - | - F Q D V H V M I F I G F G F L M T - | - F L K R - | - Y G F S S V G V N L L L A A F G L Q W G L L M - | - Q G F - - | |
| Rh#053 Danio rerio | - G D P K G H G - | - - - - - | - D H H E K - S N Q T E S P M T L Y P M - | - - - - - | - F Q D V H V M I F I G F G F L M T - | - F L K R - | - Y G F T S V G V N L L L A A F G L Q W G L L M - | - Q N V - - | |
| Rh#054 Tetraodon nigroviridis | - A K P G E G - | - - - - - | - S H S S N - H T Q E Q G P M E L Y P M - | - - - - - | - F Q D V H V M I F I G F G F L M T - | - F L K R - | - Y G F S S V G V N L L L A A F G L Q W G L L M - | - Q G I - - | |
| Rh#055 Ambystoma tigrinum | - P H H E D S - | - - - - - | - H G N S - T H Q E D E F I K L Y P L - | - - - - - | - F Q D V H V M I F I G F G F L M T - | - F L K R - | - Y G F S S V G I N L L I A A L G L Q W G T L M - | - Q G L - - | |
| Rh#056 Xenopus laevis | - S E H N D P - | - - - - - | - Q H N S - T A G Y S Q F L S L Y P L - | - - - - - | - F Q D V H V M I F V G F G F L M T - | - F L K R - | - Y G F S S V G V N M L I A A L G L Q W G I L M - | - Q G F - - | |
| Rh#057 Xenopus tropicalis | - H N L T D P - | - - - - - | - H N N S - T S G Y S Q F L S L Y P L - | - - - - - | - F Q D V H V M I F V G F G F L M T - | - F L K R - | - Y G F S S V G I N M L I A A L G L Q W G I L M - | - Q G F - - | |
| Rh#058 Gallus gallus | - G N - | - - - - - | - - - - - | - T S L Y P Y - | - - - - - | - F K D V H V M I F I G F G F L M T - | - F L K K - | - Y G F T S V G I N M L I A A F G L Q W G T L M - | - Q G F - - |
| Rh#059 Mus musculus | - P Q N A S Q K N A S H Q N A S Q - | - - - - - | - - - - - | - Q G N T S S - S A K K D Q F F L Y P L - | - - - - - | - F Q D V H V M I F V G F G F L M T - | - F L K K - | - Y G F S G V G F N L F L A A L G L Q W G T I M - | - Q G L - - |

| | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
|--------------------------------------|-------|------------|-------|------------|----------|--------------|-----------|-----------|
| Rh#060 <i>Rattus norvegicus</i> | -SQNG | GSQKSAS | QQNAS | QQNAAA | QQNAS | QQGNASS | -PAKEDQ | FFQLYPL |
| Rh#061 <i>Bos taurus</i> | -SVN | TSRN | -P | ----- | -NETESA | -AMDVEK | TMESY | PF |
| Rh#062 <i>Canis familiaris</i> | -EQNA | IQ | ----- | -QPNSTN | -STKVDRS | LELYPL | ----- | FQDVHVM |
| Rh#063 <i>Cebus apella</i> | -DQ | -HTQ | ----- | -QRNITK | -PTDLA | TFLVLYPL | ----- | FQDVHVM |
| Rh#064 <i>Gorilla gorilla</i> | -DQTV | LE | ----- | -QLNITK | -PTDMGI | FFELYPL | ----- | FQDVHVM |
| Rh#065 <i>Hylobates sp</i> | -DQTV | LE | ----- | -QLNITK | -STD | MGTFFELYPL | ----- | FQDVHVM |
| Rh#066 <i>Macaca fascicularis</i> | -DQTT | PQ | ----- | -QLNITN | -STD | MGKFLELYPL | ----- | FQDVHVM |
| Rh#067 <i>Macaca mulatta</i> | -DQTT | PQ | ----- | -QLNITT | -STD | MGKFLELYPL | ----- | FQDVHVM |
| Rh#068 <i>Pongo pygmaeus</i> | -DQTV | LE | ----- | -QLSITK | -STD | MGTFFELYPL | ----- | FQDVHVM |
| Rh#069 <i>Pan troglodytes</i> | -DQTV | LE | ----- | -QLNITT | -PT | DMGTFFFELYPL | ----- | FQDVHVM |
| Rh#070 <i>Homo sapiens</i> | -DQTV | LE | ----- | -QLNITK | -PT | DMGITFFELYPL | ----- | FQDVHVM |
| Rh#071 <i>Danio rerio</i> | -D | TDAKKWN | ----- | -KNNST | -DPA | TNEFYRYP | PS | ----- |
| Rh#072 <i>Takifugu rubripes</i> | -E | TDAKEWH | ----- | -N | -TSH | -QDYEND | FYFRYP | PS |
| Rh#073 <i>Oryctolagus cuniculus</i> | -Q | TDAALWHG | ----- | -GNH | -SNADNE | FYFRYP | PS | ----- |
| Rh#074 <i>Oryzias latipes</i> | -D | TDAKHHHG | ----- | -NHSEK | -SD | IENDFYRYP | PS | ----- |
| Rh#075 <i>Tetraodon nigroviridis</i> | -E | TDAKEWH | ----- | -N | -QSH | -NDYEND | FYFRYP | PS |
| Rh#076 <i>Xenopus tropicalis</i> | -E | SDAKQWHD | ----- | -EMRNHSV | -QNAEND | FYFRYP | PS | ----- |
| Rh#077 <i>Xenopus laevis</i> | -E | SDARG | ----- | -WHDE | LKNHST | -ANADND | FYFRYP | PS |
| Rh#078 <i>Gallus gallus</i> | -E | S | -SN | ----- | -LCS | TEPRC | -SQRD | PSPTLGYPR |
| Rh#079 <i>Mus musculus</i> | -E | TDAALWHWG | ----- | -NH | -SNVDNE | FYFRYP | PS | ----- |
| Rh#080 <i>Rattus norvegicus</i> | -E | TDAALWHWG | ----- | -NH | -SNVDNE | FYFRYP | PS | ----- |
| Rh#081 <i>Canis familiaris</i> | -E | TDAALWHWG | ----- | -NH | -SNLDNE | FYFRYP | PS | ----- |
| Rh#082 <i>Bos taurus</i> | -E | TDAALWHWG | ----- | -NH | -SNADNE | FYFRYP | PS | ----- |
| Rh#083 <i>Hylobates sp</i> | -K | TDAALWH | P | ----- | -GNN | -SNADNE | FYFRYP | PS |
| Rh#084 <i>Sus scrofa</i> | -E | TDAALWHWG | ----- | -NH | -SN | PDNE | FYFRYP | PS |
| Rh#085 <i>Macaca mulatta</i> | -K | TDAALWHRG | ----- | -NH | -SNADNE | FYFRYP | PS | ----- |
| Rh#086 <i>Papio hamadryas</i> | -K | TDAALWHRG | ----- | -NY | -SNADNE | FYFRYP | PS | ----- |
| Rh#087 <i>Pongo pygmaeus</i> | -K | TDAALWHRG | ----- | -NH | -SNADNE | FYFRYP | PS | ----- |
| Rh#088 <i>Gorilla gorilla</i> | -K | TDAALWHR | ----- | -SNH | -SNADNE | FYFRYP | PS | ----- |
| Rh#089 <i>Pan troglodytes</i> | -K | TDAALWHR | ----- | -SNH | -SNADNE | FYFRYP | PS | ----- |
| Rh#090 <i>Homo sapiens</i> | -K | TDAALWHR | ----- | -SNH | -SNADNE | FYFRYP | PS | ----- |
| Rh#091 <i>Oncorhynchus mykiss</i> | -E | SDTHWVETK | ----- | -AHDNIT | -SD | IENDFYRYP | PS | ----- |
| Rh#092 <i>Danio rerio</i> | -E | ADTHWVYTK | ----- | -KDKNKT | -SD | IENDFYRYP | PS | ----- |
| Rh#093 <i>Takifugu rubripes</i> | -E | SDAHWWEHK | ----- | -KTNNIT | -SD | IENDFYRYP | PS | ----- |
| Rh#094 <i>Danio rerio</i> | -E | SDSHWVETR | ----- | -KKNNIS | -TD | LENDFYRYP | PS | ----- |
| Rh#095 <i>Oryctolagus cuniculus</i> | -D | ADSSWSNEK | ----- | -RKNIT | -SD | LENEFYRYP | PS | ----- |
| Rh#096 <i>Tetraodon nigroviridis</i> | -E | ADTHWWEYR | ----- | -KKENIS | -SD | IENDFYRYP | PS | ----- |
| Rh#097 <i>Oryzias latipes</i> | -E | SDAHWVELK | ----- | -KTENL | -TD | LQNEFYRYP | PS | ----- |
| Rh#098 <i>Xenopus tropicalis</i> | -E | ADPHWS | ----- | -EFMKAQNIT | -SD | IENDFYRYP | PS | ----- |
| Rh#099 <i>Xenopus laevis</i> | -E | ADPHWP | ----- | -IFMKHENIT | -SD | IENDFYRYP | PS | ----- |
| Rh#100 <i>Gallus gallus</i> | -E | ADAHWEEEK | ----- | -REMNLIT | -SD | IENDFYRYP | PS | ----- |
| Rh#101 <i>Mus musculus</i> | -Q | ADAHWWLEK | ----- | -KRKNIS | -SD | VENEFYRYP | PS | ----- |
| Rh#102 <i>Rattus norvegicus</i> | -Q | ADAHWWLEK | ----- | -KRKNIS | -SD | VENEFYRYP | PS | ----- |
| Rh#103 <i>Bos taurus</i> | -D | ADPHWQEK | ----- | -V | IKNLS | -TD | LENEFYRYP | PS |
| Rh#104 <i>Canis familiaris</i> | -D | ADPHWIDKK | ----- | -EAENST | -SD | MENEFYRYP | PS | ----- |
| Rh#105 <i>Pongo pygmaeus</i> | -D | ADAHWWSWR | ----- | ----- | -TE | FYRYP | PS | ----- |
| Rh#106 <i>Pan troglodytes</i> | -E | ADAHWWSER | ----- | -THKNL | -SD | VENEFYRYP | PS | ----- |
| Rh#107 <i>Homo sapiens</i> | -E | ADAHWWSER | ----- | -THKNL | -SD | MENEFYRYP | PS | ----- |
| Rh#108 <i>Takifugu rubripes</i> | -E | SDTHWVIEHR | ----- | -KKENIS | -SD | IENDFYRYP | PS | ----- |
| Rh#109 <i>Tetraodon nigroviridis</i> | -E | SDAHWVEYK | ----- | -KSHNIT | -SD | IENDFYRYP | PS | ----- |
| Rh#110 <i>Homo sapiens</i> | -S | LEDQKG | ----- | ----- | -L | VASYQVG | ----- | QDLTVMAA |
| Rh#111 <i>Gallus gallus</i> | -A | H | ----- | ----- | -FF | YDP | ----- | FQDVHML |

| | 100 | 110 | 120 | 130 | 140 | 150 | 160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--------------------------------------|----------------------------------|------------------------------|-----------------------------|----------------------------|---------------------------------|--------------------------------|--------------------------|----------------------------|--------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|----------------------------|-----------------------------------|---------------------------|---------------------------------|---------------------------|-------------------------------------|--------------------------------------|-------------------------------|----------------------------------|------------------------------|-----------------------------|----------------------------|---------------------------------|--------------------------|--------------------------------|------------------------------|-------------------------------|----------------------------|---------------------------------|--------------------------------------|----------------------------|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|
| Rh#060 <i>Rattus norvegicus</i> | L--H-----S--HGL----- | KFPFR | IKNMI | NADF | STATV | LIS | FGAVL | GKTS | SP | IQMI | IMT | ILE | I | IAV | FAG | NEHL | VT | E | IFK | AS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#061 <i>Bos taurus</i> | F--R-----S--HGQ----- | KFL | IEMKNI | HADFS | TVTVL | LIS | FGAVL | GKTS | SP | VQML | IMT | ILE | I | TVY | AA | NEY | LV | FK | IL | WAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#062 <i>Canis familiaris</i> | V--H-----R--HGQ----- | T | YIG | IKNMI | NADF | STATV | LIS | FGAVL | GKI | SP | TQML | IMT | I | E | I | TV | FAG | NEY | VV | GE | IFQAS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#063 <i>Cebus apella</i> | L--H-----S--HGQ----- | K | INIG | IKNMI | NADF | STATV | LIS | FGAVL | GKTS | SP | IQML | IMT | I | E | I | A | FF | AG | NEY | LV | GE | IFKAS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#064 <i>Gorilla gorilla</i> | L--Q-----S--QGQ----- | K | FNIG | IKNMI | NADF | SAA | TVL | LIS | FGAVL | GKTS | SP | SQML | IMT | I | LE | I | V | FF | AH | NEY | LV | SE | IFKAS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#065 <i>Hylobates sp</i> | L--H-----S--QGQ----- | K | FNIG | IKNMI | NADF | SAA | TVL | LIS | FGAVL | GKTS | SP | TQML | IMT | I | LE | I | A | FF | AG | NEY | LV | GE | IFKAS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#066 <i>Macaca fascicularis</i> | L--H-----S--QGQ----- | K | I | TIG | IKNMI | NADF | STATV | LIS | FGAVL | GKTS | SP | TQML | IMT | I | E | I | IAV | FAG | NEY | LV | GE | IFKAS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#067 <i>Macaca mulatta</i> | L--H-----S--QGQ----- | K | I | TIG | IKNMI | NADF | STATV | LIS | FGAVL | GKTS | SP | TQML | IMT | I | E | I | IAV | FAG | NEY | LV | GE | IFKAS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#068 <i>Pongo pygmaeus</i> | L--H-----S--QGQ----- | K | FNIG | IKNMI | NADF | SAA | TVL | LIS | FGAVL | GKTS | SP | TQML | IMT | I | E | I | A | FF | AG | NEY | LV | GE | IFKAS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#069 <i>Pan troglodytes</i> | L--Q-----S--QGQ----- | K | FNIG | IKNMI | NADF | SAA | TVL | LIS | FGAVL | GKTS | SP | TQML | IMT | I | LE | I | V | FF | AH | NEY | LV | SE | IFKAS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#070 <i>Homo sapiens</i> | L--Q-----S--QGQ----- | K | FNIG | IKNMI | NADF | SAA | TVL | LIS | FGAVL | GKTS | SP | TQML | IMT | I | LE | I | V | FF | AH | NEY | LV | SE | IFKAS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#071 <i>Danio rerio</i> | F--H-----GM--HGG----- | K | I | HV | GV | TS | M | NAD | FC | TG | AVL | LIS | FGAVL | GKTS | SP | V | QL | LL | Y | M | A | I | LEV | T | F | AV | NE | I | L | L | S | I | L | G | A | | | | | | | | | | | | | |
| Rh#072 <i>Takifugu rubripes</i> | F--H-----GM--HGG----- | K | I | H | I | G | V | E | S | M | NAD | FC | TG | S | V | LIS | FGAVL | GKTS | SP | I | Q | L | L | T | M | A | I | F | E | V | T | L | F | A | V | N | E | F | I | L | L | S | L | L | G | T | | |
| Rh#073 <i>Oryctolagus cuniculus</i> | L--H-----S--HGG----- | H | I | H | V | G | M | E | S | L | NAD | FC | A | G | A | V | LIS | FGAVL | GKTS | G | P | A | Q | L | L | L | M | A | L | L | E | A | V | L | F | G | L | N | E | F | V | L | L | C | L | L | G | V |
| Rh#074 <i>Oryzias latipes</i> | Rh#075 <i>Tetraodon nigroviridis</i> | Rh#076 <i>Xenopus tropicalis</i> | Rh#077 <i>Xenopus laevis</i> | Rh#078 <i>Gallus gallus</i> | Rh#079 <i>Mus musculus</i> | Rh#080 <i>Rattus norvegicus</i> | Rh#081 <i>Canis familiaris</i> | Rh#082 <i>Bos taurus</i> | Rh#083 <i>Hylobates sp</i> | Rh#084 <i>Sus scrofa</i> | Rh#085 <i>Macaca mulatta</i> | Rh#086 <i>Papio hamadryas</i> | Rh#087 <i>Pongo pygmaeus</i> | Rh#088 <i>Gorilla gorilla</i> | Rh#089 <i>Pan troglodytes</i> | Rh#090 <i>Homo sapiens</i> | Rh#091 <i>Oncorhynchus mykiss</i> | Rh#092 <i>Danio rerio</i> | Rh#093 <i>Takifugu rubripes</i> | Rh#094 <i>Danio rerio</i> | Rh#095 <i>Oryctolagus cuniculus</i> | Rh#096 <i>Tetraodon nigroviridis</i> | Rh#097 <i>Oryzias latipes</i> | Rh#098 <i>Xenopus tropicalis</i> | Rh#099 <i>Xenopus laevis</i> | Rh#100 <i>Gallus gallus</i> | Rh#101 <i>Mus musculus</i> | Rh#102 <i>Rattus norvegicus</i> | Rh#103 <i>Bos taurus</i> | Rh#104 <i>Canis familiaris</i> | Rh#105 <i>Pongo pygmaeus</i> | Rh#106 <i>Pan troglodytes</i> | Rh#107 <i>Homo sapiens</i> | Rh#108 <i>Takifugu rubripes</i> | Rh#109 <i>Tetraodon nigroviridis</i> | Rh#110 <i>Homo sapiens</i> | Rh#111 <i>Gallus gallus</i> | | | | | | | | | | | |

| | 170 | 180 | 190 | 200 | 210 | 220 | 230 | | |
|--------------------------------------|---------------------|---|-------------|---------|---------------|---|-----------------|---------------|-----------------------|
| Rh#060 <i>Rattus norvegicus</i> | D T G A | S M T I H A F G A Y F G L A V A G V L Y | --- R S G L | --- K H | --- G H P N | E E S V Y H S D L F A M I G T L F L W M F W P S | --- F N S A I A | --- Q P E N N | --- Q Y R A I V N T Y |
| Rh#061 <i>Bos taurus</i> | D I T G E | S M T I H A F G A Y F G L A V A G I L Y | --- R S G L | --- K E | --- K H S N | E E S V Y H S D L F A M I G S L F L W I F W P S | --- F N S A I A | --- D E A K K | --- Q Y R A I V N T Y |
| Rh#062 <i>Canis familiaris</i> | D I G A | S M T I H A F G A Y F G L A V A G V L Y | --- R T G L | --- R K | --- G H E K | E E S E Y H S D L F A M I G T L F L W M F W P S | --- F N S A I A | --- E T A E E | --- Q Y L A I N T Y |
| Rh#063 <i>Cebus apella</i> | D I G A | S M T I H A F G A Y F G L A V A G I L Y | --- R S G L | --- R R | --- G H E N | E E S V Y H S D L F A M I G T L F L W M F W P S | --- F N S A I A | --- E P G D K | --- Q Y R A I V N T Y |
| Rh#064 <i>Gorilla gorilla</i> | D I G A | S M T I H A F G A Y F G L A V A G I L Y | --- R S G L | --- R K | --- G H K N | E E S A Y Y S D L F A M I G T L F L W M F W P S | --- F N S A I A | --- E P G E K | --- Q C K A I V N T Y |
| Rh#065 <i>Hylobates sp</i> | D I G A | S M T I H A F G A Y F G L A V A G I L Y | --- R S G L | --- R R | --- G H K N | E E S T Y C S D L F A M I G T L F L W F W P S | --- F N S A I A | --- E P G D K | --- Q C R A I V N T Y |
| Rh#066 <i>Macaca fascicularis</i> | D I G A | S M T I H A F G A Y F G L A V A G I L Y | --- R S A L | --- R R | --- G H K N | E E S T Y Y S D L F A M I G T L F L W M F W P S | --- F N S A I A | --- E P G D K | --- Q S R A I V N T Y |
| Rh#067 <i>Macaca mulatta</i> | D I G A | S M T I H A F G A Y F G L A V A G I L Y | --- R S A L | --- R R | --- G H K N | E E S A Y Y S D L F A M I G T L F L W M F W P S | --- F N S A I A | --- E P G D K | --- Q S R A I V N T Y |
| Rh#068 <i>Pongo pygmaeus</i> | D I G A | S M T I H A F G A Y F G L A V A G I L Y | --- R S G L | --- R R | --- R H K N | E E S A Y Y S D L F A M I G T L F L W M F W P S | --- F N S A I A | --- E P G D K | --- Q C R A I V N T Y |
| Rh#069 <i>Pan troglodytes</i> | D I G A | S M T I H A F G A Y F G L A V A G I L Y | --- R S G L | --- R K | --- G H D N | E E S A Y Y S D L F A M I G T L F L W M F W P S | --- F N S A I A | --- E P G E K | --- Q G R A I V N T Y |
| Rh#070 <i>Homo sapiens</i> | D I G A | S M T I H A F G A Y F G L A V A G I L Y | --- R S G L | --- R K | --- G H E N | E E S A Y Y S D L F A M I G T L F L W M F W P S | --- F N S A I A | --- E P G D K | --- Q C R A I V N T Y |
| Rh#071 <i>Danio rerio</i> | D A G G S | M T I H T F G A Y F G L M V T R I L H | --- R P N L | --- D K | --- S K H K | N S S V Y H S D L F A M I G T I F L W M F W P S | --- F N S A I T | --- Q Y G D P | --- Q H R T A A N T Y |
| Rh#072 <i>Takifugu rubripes</i> | D A G G S | M T I H T F G A Y F G L M V T R I L Y | --- R P N L | --- D K | --- S K H R | N S S V Y H S D L F A M I G T V Y L W M F W P S | --- F N S A I T | --- A H G D D | --- Q H R T A L N T Y |
| Rh#073 <i>Oryctolagus cuniculus</i> | D A G G S | M T I H T F G A Y F G L V L S R V L Y | --- R P H L | --- E K | --- S Q H R | Q G S V Y H S D L F A M I G T I F L W I F W P S | --- F N S A L T | --- S R G D G | --- Q P R T A L N T Y |
| Rh#074 <i>Oryzias latipes</i> | D A G G S | M T I H T F G A Y F G L M V T R I L Y | --- R P N L | --- D K | --- S K H K | N C S V Y H S D L F A M I G T L Y L W M F W P S | --- F N S A V T | --- E H G D P | --- Q H R T A M N T Y |
| Rh#075 <i>Tetraodon nigroviridis</i> | D A G G S | M T I H T F G A Y F G L M V T R I L Y | --- R P H L | --- D K | --- S K H R | N C S V Y H S D L F A M I G T I Y L W M F W P S | --- F N S A I T | --- A H G D D | --- Q H R T A L N T Y |
| Rh#076 <i>Xenopus tropicalis</i> | D A G G S | M T I H T F G A Y F G L I V S R V L Y | --- R D D L | --- E K | --- S R Q R | E G S V Y H S D L F A M I G T I Y L W M F W P S | --- F N S A I T | --- A H G D D | --- Q H R T V M N T Y |
| Rh#077 <i>Xenopus laevis</i> | D A G G S | M T I H T F G A Y F G L I V S R V L Y | --- R A D L | --- D K | --- S R Q R | E G S V Y H S D L F A M I G T I Y L W M F W P S | --- F N S A V T | --- A H G D D | --- Q H R T V L N T Y |
| Rh#078 <i>Gallus gallus</i> | D S G G S | L T I H T F G A Y F G L T V S R A L H | --- Q P H E | --- D K | --- R K E Q | Q D V G H G P D V F A V V G T I C L W I F W P S | --- F A S A T T | --- A H D S A | --- P W A V L N L Y |
| Rh#079 <i>Mus musculus</i> | D A G G S | M T I H T F G A Y F G L F L S R V L Y | --- R S Q L | --- E K | --- S R H R | Q T S V Y N S D L F A M I G T I F L W F W P S | --- F N S A P T | --- A L G D G | --- Q H R T V V N T Y |
| Rh#080 <i>Rattus norvegicus</i> | D A G G S | M T I H T F G A Y F G L F L S R V L Y | --- R S Q L | --- E K | --- S R H R | Q T S V Y N S D L F A M I G T I F L W F W P S | --- F N S A P T | --- A L G D G | --- Q H R T V V N T Y |
| Rh#081 <i>Canis familiaris</i> | D A G G S | M T I H T F G A Y F G L V L S R V L Y | --- R P Q L | --- E K | --- S K H R | Q C S V Y H S D L F A M I G T I F L W I F W P S | --- F N S A P T | --- T L G D G | --- Q H R T A L N T Y |
| Rh#082 <i>Bos taurus</i> | D A G G S | M T I H T F G A Y F G L I L S R V L Y | --- R P Q L | --- E K | --- H R Q | G S V Y H S D L F A M I G T I F L W I F W P S | --- F N S A P T | --- A L G D G | --- Q H R T A L N T Y |
| Rh#083 <i>Hylobates sp</i> | D A R G S | M T I H T F G A Y F R L V L S W L Y | --- R P Q L | --- E K | --- S K N R | Q G S V Y H S D L F A M I G T I F L W I F W P S | --- F N A A L T | --- A L G A G | --- Q H R T A L N T Y |
| Rh#084 <i>Sus scrofa</i> | D A G G S | M T I H T F G A Y F G L V L S R V L Y | --- R P Q L | --- E K | --- S K H R | Q S S V Y H S D L F A M I G T I F L W I F W P S | --- F N S A P T | --- P L G D G | --- Q H R T A L N T Y |
| Rh#085 <i>Macaca mulatta</i> | D A G G S | M T I H T F G A Y F G L V L S R V L Y | --- R P Q L | --- E K | --- S K H R | Q G S V Y H S D L F A M I G T I F L W I F W P S | --- F N S A L T | --- A L G A G | --- Q H R T A L N T Y |
| Rh#086 <i>Papio hamadryas</i> | D A G G S | M T I H T F G A Y F G L V L S R V L Y | --- R P Q L | --- E K | --- S K H R | Q G S V Y H S D L F A M I G T I F L W I F W P S | --- F N S A L T | --- A L G A G | --- Q H R T A L N T Y |
| Rh#087 <i>Pongo pygmaeus</i> | D A G G S | M T I H T F G A Y F G L V L S Q V L Y | --- R P Q L | --- E K | --- S K H R | N G Q L Y H S D L F A M I G T I F L W I F W P S | --- F N A A L T | --- S L G A G | --- Q H R T A L N T Y |
| Rh#088 <i>Gorilla gorilla</i> | D A G G S | M T I H T F G A Y F G L V L S R V L Y | --- R P Q L | --- E K | --- S K H R | Q G S V Y H S D L F T M I G T I F L W I F W P S | --- F N A A L T | --- A L G A G | --- Q H R T A L N T Y |
| Rh#089 <i>Pan troglodytes</i> | D A G G S | M T I H T F G A Y F G L V L S R V L Y | --- R P Q L | --- E K | --- S K H R | Q G S V Y H S D L F A M I G T I F L W I F W P S | --- F N A A L T | --- A L G A G | --- Q H R T A L N T Y |
| Rh#090 <i>Homo sapiens</i> | D A G G S | M T I H T F G A Y F G L V L S R V L Y | --- R P Q L | --- E K | --- S K H R | Q G S V Y H S D L F A M I G T I F L W I F W P S | --- F N A A L T | --- A L G A G | --- Q H R T A L N T Y |
| Rh#091 <i>Oncorhynchus mykiss</i> | D A G G S | M V I H T F G G Y Y G L T I S W L Y | --- R P N L | --- H Q | --- S K R M | Q G S V Y H S D I F A M I G T L F L W M F W P S | --- F N S A I T | --- D H G D G | --- Q H R A V I N T Y |
| Rh#092 <i>Danio rerio</i> | D A G G S | M V I H T F G A Y Y G L S I S R V L Y | --- R P N L | --- N K | --- S K H M | N G S V Y H S D V F A M I G T L F L W M F W P S | --- F N S A I C | --- N H G D G | --- Q H R A A I N T Y |
| Rh#093 <i>Takifugu rubripes</i> | D A G G S | M V I H A F G G Y Y G L G I S W L Y | --- R P N L | --- H Q | --- S K R L | H G S V Y H S D V F A M I G T L F L W M F W P S | --- F N S A I T | --- D H G D G | --- Q H R A A I N T Y |
| Rh#094 <i>Danio rerio</i> | D A G G S | M V I H T F G A Y Y G L T I S W L Y | --- R P F L | --- S Q | --- S N H L | Q R S V Y H S D V F A M I G T L F L W M F W P S | --- F N S A I A | --- D H G D G | --- Q H R A A I N T Y |
| Rh#095 <i>Oryctolagus cuniculus</i> | D A G G S | I T I H T F G A Y F G L T V T W I L Y | --- R H N L | --- D H | --- S R E R | Q S S V Y H S N L F A M I G T L F L W I Y W P S | --- F N S A M S | --- N Y G D A | --- Q H R A A I N T Y |
| Rh#096 <i>Tetraodon nigroviridis</i> | D A G G S | M V I H T F G G Y Y G L S I S W M L Y | --- R P N L | --- E Q | --- S S N L | Q G S V Y Q S D V F A M I G T L F L W M F W P S | --- F N S A I T | --- D H G D G | --- Q H R A A I N T Y |
| Rh#097 <i>Oryzias latipes</i> | D S G G A | M V I H C F G G Y Y G L A I S W L Y | --- R P N L | --- H R | --- S K R L | N G S V Y H S D L F A M I G T L F L W M F W P S | --- F N S A I A | --- N H G D G | --- Q H R T A M N T Y |
| Rh#098 <i>Xenopus tropicalis</i> | D A G G S | M T I H T F G A Y F G L T V A W I L N | --- R P R L | --- K Q | --- T N D K | E G S V Y S D L F S M I G T L F L W M F W P S | --- F N S A V S | --- Y H G D A | --- Q H R A A I N T Y |
| Rh#099 <i>Xenopus laevis</i> | D A G G S | M T I H T F G A Y F G L T V A W I L S | --- R P K L | --- K Q | --- N N D K | E G S T Y I S D L F S M I G T L F L W M Y W P S | --- F N S A I S | --- Y H G D A | --- Q H R A A I N T Y |
| Rh#100 <i>Gallus gallus</i> | D A G G S | M T I H T F G A Y F G L T V T R F L Y | --- R P N L | --- E Q | --- S K D K | E G S V Y H S D L F A M I G T L Y L W M Y W P S | --- F N S A I S | --- E H G D A | --- Q H R A A I N T Y |
| Rh#101 <i>Mus musculus</i> | D A G G S | M T I H T F G A Y F G L T V T W I L Y | --- R K N L | --- D Q | --- S K Q R | Q S S V Y H S D L F A M I G T L F L W I Y W P S | --- F N S A S S | --- F H G D A | --- Q H R A A L N T Y |
| Rh#102 <i>Rattus norvegicus</i> | D A G G S | M T I H T F G A Y F G L T V T W I L Y | --- R K N L | --- E Q | --- S K Q R | Q S S V Y H S D L F A M I G T L F L W I Y W P S | --- F N S A S S | --- F H G D T | --- Q H R A A L N T Y |
| Rh#103 <i>Bos taurus</i> | D S G G S | M T I H A F G A Y F G L T V A W I L Y | --- R P N L | --- H L | --- S K E R | Q S S T Y H S D L F A M I G T L F L W M Y W P S | --- F N S A I S | --- N H G D A | --- Q H R A A I N T Y |
| Rh#104 <i>Canis familiaris</i> | D A G G S | M T I H T F G A Y F G L T V T W I L Y | --- R P G L | --- H Q | --- S K E R | Q S S V Y H S D L F A M I G T L F L W M Y W P S | --- F N S A V S | --- N H G D A | --- Q H R A A I N T Y |
| Rh#105 <i>Pongo pygmaeus</i> | D A G G S | M T I H T F G A Y F G L T V T R I L Y | --- R R N L | --- E Q | --- S K E R | Q N S V Y Q S D L F A M I G T L F L W M Y W P S | --- F N S A I S | --- Y H G D S | --- Q H R A A I N T Y |
| Rh#106 <i>Pan troglodytes</i> | D A G G S | M T I H T F G A Y F G L T V T R I L Y | --- R R N L | --- E Q | --- S K E R | Q N S V Y Q S D L F A M I G T L F L W M Y W P S | --- F N S A I S | --- Y H G D S | --- Q H R A A I N T Y |
| Rh#107 <i>Homo sapiens</i> | D A G G S | M T I H T F G A Y F G L T V T R I L Y | --- R R N L | --- E Q | --- S K E R | Q N S V Y Q S D L F A M I G T L F L W M Y W P S | --- F N S A I S | --- Y H G D S | --- Q H R A A I N T Y |
| Rh#108 <i>Takifugu rubripes</i> | D A G G S | M V I H T F G G Y Y G L S I S W M L Y | --- R P N L | --- D Q | --- S S N L | Q G S V Y H S D V F A M I G T L F L W M F W P S | --- F N S A I T | --- D H G D G | --- Q H R A A I N T Y |
| Rh#109 <i>Tetraodon nigroviridis</i> | D A G G S | M V I H A F G G Y Y G L A I S W L Y | --- R P N L | --- H Q | --- S K R L | N G S V Y H S D V F A M I G T L F L W M F W P S | --- F N S A I T | --- D H G D G | --- Q H R A A I N T Y |
| Rh#110 <i>Homo sapiens</i> | Y H M N M M H | I Y V F A A Y F G L S V A W C L P | --- K P L | --- P E | --- G T E D K | D Q T A T I P S L S A M L G A L F L W M F W P S | --- F N S A L T | --- R S P I E | --- R K N A V I N T Y |
| Rh#111 <i>Gallus gallus</i> | S H V S M M H V H L | F G A Y F G L A V S S R F S | --- E P S P | --- R S | --- E K N | --- A S T P R S D L L S M L G T L F L W F W P S | --- F N S V L A | --- V E K | --- D R A I F N T C |

| | 340 | | | 350 | 360 | 370 | 380 |
|--|---------|-----------|----------------|-----|-----|-----|-----|
| Rh#001.1 <i>Nitrosomonas europaea</i> | SA | ILIVP | -GIA | | | | |
| Rh#001.2 <i>Nitrosospora multiformis</i> | VAVLVVP | -GIA | | | | | |
| Rh#001.3 <i>Acidobacteria bacterium</i> | IA | IVVIP | -GIA | | | | |
| Rh#001.4 <i>Candidatus Kueningenia</i> | AA | IFMAGSAVP | | | | | |
| Rh#002 <i>Danio rerio</i> | AG | ICAIL | -LATEETYGP | | | | |
| Rh#003 <i>Takifugu rubripes</i> | AG | ICAIL | -LANEETYGP | | | | |
| Rh#004 <i>Takifugu rubripes</i> | AG | ICAIL | -MAREEDYGP | | | | |
| Rh#005 <i>Takifugu rubripes</i> | AG | ICAIL | -MAREEDYGP | | | | |
| Rh#006 <i>Tetraodon nigroviridis</i> | AG | ICAIL | -LAKEETYGP | | | | |
| Rh#007 <i>Xenopus tropicalis</i> | GS | ILAIL | -LDRVDTGGH | | | | |
| Rh#008 <i>Chlamydomonas reinhardtii</i> | VAGLAA | L | GQHPDYLEHDTG | | | | |
| Rh#009 <i>Chlamydomonas reinhardtii</i> | VAGLAA | L | GQHSYDLEHDTG | | | | |
| Rh#010 <i>Apis mellifera</i> | FAGLMAA | L | ATEASYDY | | | | |
| Rh#011 <i>Dictyostelium discoideum</i> | AA | IFAAI | -KGLNPN | | | | |
| Rh#012 <i>Dictyostelium discoideum</i> | AAC | IAAW | -KGLNDRSLYN | | | | |
| Rh#013 <i>Geodia cydonium</i> | GS | FVAAY | -LASYSGGGNRIEY | | | | |
| Rh#014 <i>Caenorhabditis elegans</i> | LS | IGFAY | -FYEPESYG | | | | |
| Rh#015 <i>Caenorhabditis briggsae</i> | LS | IGFAY | -FYEPESYG | | | | |
| Rh#016 <i>Caenorhabditis elegans</i> | AS | IAFLF | -IYDETRYP | | | | |
| Rh#017 <i>Caenorhabditis briggsae</i> | AS | IAFLF | -IYDESQYP | | | | |
| Rh#018 <i>Ciona intestinalis</i> | AAVV | FAK | -LTTATTTYTD | | | | |
| Rh#019 <i>Ciona intestinalis</i> | ASA | IAAA | -IATQETKYD | | | | |
| Rh#020 <i>Ciona intestinalis</i> | ISA | IVAT | -IATKDAYQD | | | | |
| Rh#021 <i>Carcinus maenas</i> | IG | AVAAA | -LASEATYGL | | | | |
| Rh#022 <i>Anopheles gambiae</i> | FSA | IYAS | -FASVETYG | | | | |
| Rh#023 <i>Drosophila pseudoobscura</i> | ASA | IYAS | -MASLDDYQS | | | | |
| Rh#024 <i>Drosophila melanogaster</i> | ASA | IYAS | -MATVGEYQS | | | | |
| Rh#025 <i>Ciona savignyi</i> | ASA | IAAA | -VADRASYQD | | | | |
| Rh#026 <i>Ciona savignyi</i> | ISA | IAIA | -LANKAAYQD | | | | |
| Rh#027 <i>Ciona savignyi</i> | AAV | IAK | -ATSPTTYTT | | | | |
| Rh#028 <i>Drosophila yakuba</i> | ASA | IYAS | -MVTVGEYQS | | | | |
| Rh#029 <i>Danio rerio</i> | AHLC | LRL | -ASMEG | | | | |
| Rh#030 <i>Salmo salar</i> | VQL | LLQI | -ADSDDLTT | | | | |
| Rh#031 <i>Takifugu rubripes</i> | AH | LLLQI | -QACDDPTT | | | | |
| Rh#032 <i>Tetraodon nigroviridis</i> | AH | LLLQL | -WDSEDHT | | | | |
| Rh#033 <i>Xenopus laevis</i> | TY | VVLIV | -TADFTSTA | | | | |
| Rh#034 <i>Xenopus tropicalis</i> | TY | VILII | -TADFRSTA | | | | |
| Rh#035 <i>Gallus gallus</i> | AE | VFFV | -MDIQTCLP | | | | |
| Rh#036 <i>Mus musculus</i> | TY | YCLQI | -VTEPKSS | | | | |
| Rh#037 <i>Oncorhynchus mykiss</i> | VQ | LLLQI | -ADSDDLTT | | | | |
| Rh#038 <i>Rattus norvegicus</i> | TY | YCLHI | -IAESRPSN | | | | |
| Rh#039 <i>Bos taurus</i> | VN | IMLMA | -LQAQGVDKS | | | | |
| Rh#040 <i>Callithrix jacchus</i> | TY | IVLMM | -HQA VWAN | | | | |
| Rh#041 <i>Canis familiaris</i> | VY | ILLMF | -YEV TWTKN | | | | |
| Rh#042 <i>Cebus apella</i> | TY | IALMM | -HQA VWAN | | | | |
| Rh#043 <i>Macaca fascicularis</i> | TY | IVLMA | -LRVFWASSN | | | | |
| Rh#044 <i>Macaca mulatta</i> | TY | IVLMA | -LRVVWASSN | | | | |
| Rh#045 <i>Sus scrofa</i> | ID | IVLKA | -LQVKWTEVS | | | | |
| Rh#046 <i>Gorilla gorilla</i> | IY | IVLLV | -LDTVGA GNG | | | | |
| Rh#047 <i>Papio papio</i> | TC | IVLMA | -LRVVWASSN | | | | |
| Rh#048 <i>Pongo pygmaeus</i> | TY | IVLVV | -LRTVWAG | | | | |
| Rh#049 <i>Pan troglodytes</i> | IY | IVLLV | -HHTVWNGG | | | | |
| Rh#050 <i>Homo sapiens</i> | TY | IVLLV | -LHTVWNGG | | | | |
| Rh#051 <i>Papio hamadryas</i> | AG | IAAVA | -LGASNTS | | | | |
| Rh#052 <i>Takifugu rubripes</i> | AG | IVAVA | -MGKKDGG | | | | |
| Rh#053 <i>Danio rerio</i> | AG | ILAAA | -LKRKEGV | | | | |
| Rh#054 <i>Tetraodon nigroviridis</i> | AG | IVAVA | -LGKKDGG | | | | |
| Rh#055 <i>Ambystoma tigrinum</i> | AG | IVAAM | -LGAKEGA | | | | |
| Rh#056 <i>Xenopus laevis</i> | AG | IVSAA | -VGAKEGC | | | | |
| Rh#057 <i>Xenopus tropicalis</i> | AG | IVAAA | -IGAKEGC | | | | |
| Rh#058 <i>Gallus gallus</i> | AS | IVVTA | -TQPE TKG | | | | |
| Rh#059 <i>Mus musculus</i> | AS | IVAA | -ISWGMS TAS | | | | |

| | 390 | 400 | 410 | 420 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|---------------------------------------|--------------------------|---------------------|--------------|--------------|------------|-------|-------------|--------|----------|-------|------|------|--------|------|--------|-------|---|---|---|---|---|---|---|---|---|---|---|--|
| Rh#001.1 <i>Nitrosomonas europaea</i> | SHEFIHLA | GPEDEHKAERLVLEAKTEIQGLKNRIDAAVLSAKSEG | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#001.2 <i>Nitrosospora multififormis</i> | SEEFTHTE | GPE-ATEIEAIVLEGETST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#001.3 <i>Acidobacteria bacterium</i> | REEFA | GAD | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#001.4 <i>Candidatus Kuenenia</i> | EEE | FVVEAH | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#002 <i>Danio rerio</i> | FDDEV | FFTVPSDYDCVNVLSE | TSKAENE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#003 <i>Takifugu rubripes</i> | FDDEL | FFDLPPDAGTTALSDTKIFD | GK LKMNSV | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#004 <i>Takifugu rubripes</i> | YDDEL | FFEVPPDYDSP LQLNNLVSP | EDSAV | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#005 <i>Takifugu rubripes</i> | YDDEL | FFEVPPDYDSP LQLNNLVSP | EDSAV | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#006 <i>Tetraodon nigroviridis</i> | FDDEL | FFGFDDDELSS | TCHL TSA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#007 <i>Xenopus tropicalis</i> | FDDQPY | FQIPIDSEEKWSLNP | KAQRELLVPLKQV | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#008 <i>Chlamydomonas reinhardtii</i> | FDDGP | WWEHQRVEPMP | ISTSIHLNSMSAHGKSHHNQSVSV | GQLNPIREGREIAVSGVPA | TGQRSVGEIAV | TMQAAPVMASSA | PVMGMHAAAA | TPIDT | PLFAD | GHAM | | | | | | | | | | | | | | | | | | | | |
| Rh#009 <i>Chlamydomonas reinhardtii</i> | FDDGP | WWWGQRVEPMP | ISTSIHLSTLNSRHQKDGGS | TQRGNAAANASVSMANTLV | PNPAEP | RRHGSACPAAP | IAVSGV | PA | AAVAHHS | LTVSG | QQGA | AHG | AAAA | SE | IVA | | | | | | | | | | | | | | | |
| Rh#010 <i>Apis mellifera</i> | FDDEA | HWLEEE | LQGS | IKESNSCSNDQL | PMGHM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#011 <i>Dictyostelium discoideum</i> | YQDSA | FWILPIDY | PKDVA | TVVALNNAATSEDTAG | GGDDEEE | GVGKEH | GAVEMGKHNR | IVQ | PKQDNKYHKQL | PSDDEE | EEDE | FKQE | PI | | | | | | | | | | | | | | | | | |
| Rh#012 <i>Dictyostelium discoideum</i> | YQDSA | FWHVPIDY | PKDVEYVVEQNNLP | MPTTDN | GDNVVGGGVEMK | KNHNNNNNNK | KENGYRRDL | IRLLE | TLVRNEQS | TDSSYS | SDSSDDEE | EKERR | IRK | LAKK | SYRRS | | | | | | | | | | | | | | | |
| Rh#013 <i>Geodia cydonium</i> | FDDQI | YWE | LDDADKYLP | IEELSR | SRIE | IAIGLRH | GV | PA | ADS | PP | VS | GE | TG | QQ | TNEENK | QETS | I | | | | | | | | | | | | | |
| Rh#014 <i>Caenorhabditis elegans</i> | PHGEM | NYYAQSDVN | FLSKYKHAQE | QERLRERE | QMQE | IY | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#015 <i>Caenorhabditis briggsae</i> | PHGEM | NYYAQSDVN | FLSKYKHAQE | QRLRERE | QMHE | IY | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#016 <i>Caenorhabditis elegans</i> | YADGDY | FE | TPGDYD | FTSRIV | TSVKQIE | VAEYNP | LSQKEV | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#017 <i>Caenorhabditis briggsae</i> | YADGDY | FE | TPGDYD | FTSRIV | TSVKQIE | VAEYNP | LSQKEV | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#018 <i>Ciona intestinalis</i> | TKKAL | VE | QTS | DNNDQVVEE | VQTS | ST | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#019 <i>Ciona intestinalis</i> | FEDEV | FWDC | VE | TVSE | EAEQNGS | NDKQHE | VVAT | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#020 <i>Ciona intestinalis</i> | FEDEV | FW | DV | SGS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#021 <i>Carcinus maenas</i> | YEDK | WWM | ME | SE | EDE | GK | GS | VSI | P | MADN | GAR | | | | | | | | | | | | | | | | | | | |
| Rh#022 <i>Anopheles gambiae</i> | HKDDA | FWE | TP | SE | ESTNTT | ITT | NESSN | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#023 <i>Drosophila pseudoobscura</i> | HQDE | QYWE | VPA | LDN | KEE | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#024 <i>Drosophila melanogaster</i> | HQDE | HYWE | VPA | AEN | KEE | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#025 <i>Ciona savignyi</i> | FEDEV | FW | CE | GD | WN | QESQND | TNGVEK | GGE | VSA | LA | | | | | | | | | | | | | | | | | | | | |
| Rh#026 <i>Ciona savignyi</i> | FEDEV | FW | CP | QA | ES | DD | TD | NER | EV | LAG | K | ST | A | T | A | S | A | | | | | | | | | | | | | |
| Rh#027 <i>Ciona savignyi</i> | FDDR | P | YWN | LE | SE | ESND | I | P | MKN | L | Q | Q | E | P | TRKS | LV | LHHLYC | NCNVN | | | | | | | | | | | | |
| Rh#028 <i>Drosophila yakuba</i> | HQDE | HYWE | VPA | AEN | KEE | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#029 <i>Danio rerio</i> | FDDQA | FWE | FP | N | LV | TKK | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#030 <i>Salmo salar</i> | FDDQA | FWD | FP | H | L | GG | K | N | | | | | | | | | | | | | | | | | | | | | | |
| Rh#031 <i>Takifugu rubripes</i> | FDDQA | FWE | FP | H | L | A | V | G | K | | | | | | | | | | | | | | | | | | | | | |
| Rh#032 <i>Tetraodon nigroviridis</i> | FDDQA | FWE | FP | H | L | A | V | R | K | | | | | | | | | | | | | | | | | | | | | |
| Rh#033 <i>Xenopus laevis</i> | FHDQP | YWE | FP | H | L | A | S | H | L | | | | | | | | | | | | | | | | | | | | | |
| Rh#034 <i>Xenopus tropicalis</i> | FHDQP | YWE | FP | H | L | A | S | H | L | | | | | | | | | | | | | | | | | | | | | |
| Rh#035 <i>Gallus gallus</i> | FEDQM | YWE | FP | H | L | A | V | G | F | | | | | | | | | | | | | | | | | | | | | |
| Rh#036 <i>Mus musculus</i> | FDDQT | FW | E | FP | H | L | A | V | G | F | | | | | | | | | | | | | | | | | | | | |
| Rh#037 <i>Oncorhynchus mykiss</i> | FDDQA | FWE | FP | H | Q | A | G | K | R | | | | | | | | | | | | | | | | | | | | | |
| Rh#038 <i>Rattus norvegicus</i> | FDDQA | FWE | FP | H | L | A | V | E | F | | | | | | | | | | | | | | | | | | | | | |
| Rh#039 <i>Bos taurus</i> | FDDQS | FWK | FP | H | L | A | V | G | Y | | | | | | | | | | | | | | | | | | | | | |
| Rh#040 <i>Callithrix jacchus</i> | FDDQA | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#041 <i>Canis familiaris</i> | FDDQA | S | W | E | FP | H | L | A | V | G | F | | | | | | | | | | | | | | | | | | | |
| Rh#042 <i>Cebus apella</i> | FDDQA | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#043 <i>Macaca fascicularis</i> | FDDQA | FWE | FP | H | L | A | V | G | F | | | | | | | | | | | | | | | | | | | | | |
| Rh#044 <i>Macaca mulatta</i> | FDDQA | FWE | FP | H | L | A | V | G | F | | | | | | | | | | | | | | | | | | | | | |
| Rh#045 <i>Sus scrofa</i> | FNDQT | FWK | FP | H | L | A | A | G | Y | | | | | | | | | | | | | | | | | | | | | |
| Rh#046 <i>Gorilla gorilla</i> | FDDQV | FWK | FP | H | L | A | V | G | F | | | | | | | | | | | | | | | | | | | | | |
| Rh#047 <i>Papio papio</i> | FDDQA | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rh#048 <i>Pongo pygmaeus</i> | FDDQA | FWK | FP | H | L | A | V | G | F | | | | | | | | | | | | | | | | | | | | | |
| Rh#049 <i>Pan troglodytes</i> | FDDQV | FWK | FP | H | L | A | V | E | F | | | | | | | | | | | | | | | | | | | | | |
| Rh#050 <i>Homo sapiens</i> | FDDQV | FWK | FP | H | L | A | V | G | F | | | | | | | | | | | | | | | | | | | | | |
| Rh#051 <i>Papio hamadryas</i> | YDDS | VYWE | V | P | I | L | R | E | P | D | H | F | H | G | H | G | D | H | S | Q | L | E | P | E | V | | | | | |
| Rh#052 <i>Takifugu rubripes</i> | YDDS | LYWE | V | P | D | E | E | E | S | G | E | F | A | H | A | D | H | S | K | N | K | A | E | V | | | | | | |
| Rh#053 <i>Danio rerio</i> | FDDS | IYWE | V | P | E | E | E | E | E | T | E | R | L | T | H | G | D | S | K | N | K | A | E | A | | | | | | |
| Rh#054 <i>Tetraodon nigroviridis</i> | YDDS | LYWE | V | P | D | E | E | E | E | N | E | S | L | T | H | A | D | H | S | K | N | K | A | E | V | | | | | |
| Rh#055 <i>Ambystoma tigrinum</i> | YDDS | LYWE | V | P | L | D | E | E | E | Q | P | N | H | Y | Q | E | D | Q | S | K | M | K | V | D | A | | | | | |
| Rh#056 <i>Xenopus laevis</i> | YDDS | IYWE | V | P | L | E | E | P | E | Q | E | N | Q | H | Q | N | E | H | G | K | I | L | E | A | | | | | | |
| Rh#057 <i>Xenopus tropicalis</i> | YDDS | IYWE | V | P | L | E | E | P | E | Q | E | H | Q | Y | D | E | H | G | K | I | K | S | D | A | | | | | | |
| Rh#058 <i>Gallus gallus</i> | FDDSA | YWE | V | P | E | E | E | K | L | P | E | I | N | S | N | N | Y | D | E | H | S | R | F | E | A | I | M | | | |
| Rh#059 <i>Mus musculus</i> | YDDS | V | S | W | K | V | P | K | F | R | E | L | D | N | R | F | F | Q | H | A | N | H | N | H | V | E | H | E | V | |

| | 390 | 400 | 410 | 420 | | | | | |
|--------------------------------------|-----------|-------------|------------------|----------------------|--------------------|--------------|----------|------------|--------|
| Rh#060 <i>Rattus norvegicus</i> | FDDS | VSWKVPKYRE | LDNY F | FQHV THNHVEHEV | | | | | |
| Rh#061 <i>Bos taurus</i> | YDDSVYWEV | PERKEYDNH | FHEL | LLS TLH | | | | | |
| Rh#062 <i>Canis familiaris</i> | FDDSVYWEV | PKEKE | LDNV | | | | | | |
| Rh#063 <i>Cebus apella</i> | YDDSVYWKV | PRLTEHDNR | FH | | | | | | |
| Rh#064 <i>Gorilla gorilla</i> | YDDSVYWKV | PKAR | | | | | | | |
| Rh#065 <i>Hylobates sp</i> | YDDSVYWEV | PRVRE LDN | PYY GHGDHSQLE | PEV | | | | | |
| Rh#066 <i>Macaca fascicularis</i> | YDDSVYWEV | PI LREPD | DHH FHGHGDHSQLE | PEV | | | | | |
| Rh#067 <i>Macaca mulatta</i> | YDDSVYWEV | PI LREPD | NH FHGHGDHSQLE | PEV | | | | | |
| Rh#068 <i>Pongo pygmaeus</i> | YDDSVYWEV | PRLRES | GN Y FQGHGDHSQLE | PEV | | | | | |
| Rh#069 <i>Pan troglodytes</i> | YDDSVYWKV | PKAR | | | | | | | |
| Rh#070 <i>Homo sapiens</i> | YDDSVYWKV | PKTR | | | | | | | |
| Rh#071 <i>Danio rerio</i> | FEDAVYWEV | PGEEDHHE | LNEVS | TQNEVEK LNS | | | | | |
| Rh#072 <i>Takifugu rubripes</i> | FEDSVYWEV | PGSES | PEEGE | LTSVKPEE TEHLNS | | | | | |
| Rh#073 <i>Oryctolagus cuniculus</i> | YEDQMCWEV | PGEHGYEAQEA | LRVEEP | PDTEA | | | | | |
| Rh#074 <i>Oryzias latipes</i> | FEDSLYWEV | PGEES | HEDQL TTVK | TEESDK LNS | | | | | |
| Rh#075 <i>Tetraodon nigroviridis</i> | FEDGVYWEV | PESEAP | HEAQL TTVR | TEE TEK LSS | | | | | |
| Rh#076 <i>Xenopus tropicalis</i> | FEDAVYWEV | PGGE | GHQL TVV INNED | PD TQA | | | | | |
| Rh#077 <i>Xenopus laevis</i> | FEDAVYWEV | PGGE | GHQL TVVVN | NED PD TQA | | | | | |
| Rh#078 <i>Gallus gallus</i> | LESKALRE | VDEDDG | CDHGT | SSEERRT IA | | | | | |
| Rh#079 <i>Mus musculus</i> | FEDQVYWEV | PGEQE | TE TQRP | LRGGESD TRA | | | | | |
| Rh#080 <i>Rattus norvegicus</i> | FEDQVYWEV | PGEQEA | TQRP | LR TEE PD TQA | | | | | |
| Rh#081 <i>Canis familiaris</i> | YEDQVYWEV | PGEHEDAA | QGPL | LKAAE PD TQA | | | | | |
| Rh#082 <i>Bos taurus</i> | YEDQIYWEV | PGEHEH | LAQGS | EE TE TQA | | | | | |
| Rh#083 <i>Hylobates sp</i> | YEDQVHWQV | PGEHEDKA | QRLV | EEAD TQA | | | | | |
| Rh#084 <i>Sus scrofa</i> | YEDQIYWEV | PEEHAD | LAQGS | LRPEE PD TQA | | | | | |
| Rh#085 <i>Macaca mulatta</i> | YEDQVHWQV | PGEHEDEA | QRLV | EEAD TQA | | | | | |
| Rh#086 <i>Papio hamadryas</i> | YEDQVHWQV | PGEHEDEA | QRLV | EEAD TQA | | | | | |
| Rh#087 <i>Pongo pygmaeus</i> | YEDQVHWQV | PGEHEDKA | QRLV | EEAD TQA | | | | | |
| Rh#088 <i>Gorilla gorilla</i> | YEDQVHWQV | PGEHEDKA | QRLV | EEAD TYA | | | | | |
| Rh#089 <i>Pan troglodytes</i> | YEDQVHWQV | PGEHEDKA | QRLV | EEAD TQA | | | | | |
| Rh#090 <i>Homo sapiens</i> | YEDQVHWQV | PGEHEDKA | QRLV | EEAD TQA | | | | | |
| Rh#091 <i>Oncorhynchus mykiss</i> | FDDEVYWE | LPDEEEE | HQES I PP | I LEYNNHM IHKRQDLSE | NFSVEHCES | | | | |
| Rh#092 <i>Danio rerio</i> | FNDEMYWE | VPEDEE | I PPV | LSYNNHM I PNNKHEEMRE | TNFAEQS | | | | |
| Rh#093 <i>Takifugu rubripes</i> | FDDEAYWE | VPEDEE | T I PPV | LEYNNHM IHKHQD | IAE TNFSVEQS | | | | |
| Rh#094 <i>Danio rerio</i> | FDDDIYWE | VPEEEDEN | I PA | FGHQNMMHVERT | PD A | | | | |
| Rh#095 <i>Oryctolagus cuniculus</i> | FDDSIYWE | MHEEKSSS | PEDH | THK PSV P | TE PVEQP TSSA TLAP | | | | |
| Rh#096 <i>Tetraodon nigroviridis</i> | FNDEPYWE | LPEEEE | I PP | I LHYNNHMMV | NKDV | | | | |
| Rh#097 <i>Oryzias latipes</i> | FDDEAYWE | LPEEEE | T I PPV | LEYNNHMTQK | HQE TPE TS FSVVES | | | | |
| Rh#098 <i>Xenopus tropicalis</i> | FDDEVYWE | LPEEDEEE | H LGAANQYV | THL PEN | FKLPDR TEVA FK | | | | |
| Rh#099 <i>Xenopus laevis</i> | FDDDVYWE | LREEDEEE | H LGAANQY | I THL | PENFKLPDR TE IS FK | | | | |
| Rh#100 <i>Gallus gallus</i> | FEDDIYWE | VPEDEE | SDVYHMHN | PDKAAS | P | | | | |
| Rh#101 <i>Mus musculus</i> | FEDSIYWE | VHEEVN | TVY I | PEDLAHKHS | TS LVPA I PLVLS | TPSAS IVP PV | PTPPVSLA | TSAP | SAALVH |
| Rh#102 <i>Rattus norvegicus</i> | FEDAIYWE | VPEEVN | TVY I | PEDLAHKHS | TS LVPA I PLVLS | TPSAS IVP PV | PTPPASLA | TV TSSSLVH | |
| Rh#103 <i>Bos taurus</i> | FEDAVYWE | I PKEP | KS TALR | SEDSS IK | PPPEP | | | | |
| Rh#104 <i>Canis familiaris</i> | FEDA IYWE | MPEEP | KS TV LHP | EDS TLK | PSEP | | | | |
| Rh#105 <i>Pongo pygmaeus</i> | FEDAVYWE | MPEGNS | TVY I | PEDP TFK | PSGSPV | PSV PMVSP | PLPMASSV | PLVP | |
| Rh#106 <i>Pan troglodytes</i> | FEDAVYWE | MPEGNS | TVY I | PEDP TFK | PSGSPV | PSV PMVSP | PLPMASSV | PLVP | |
| Rh#107 <i>Homo sapiens</i> | FEDAVYWE | MPEGNS | TVY I | PEDP TFK | PSGSPV | PSV PMVSP | PLPMASSV | PLVP | |
| Rh#108 <i>Takifugu rubripes</i> | FNDEPYWE | G I FHSKA | TRAAP | QCCLVAAE | THVCF | PNRSNSA | WCFQVQLR | | |
| Rh#109 <i>Tetraodon nigroviridis</i> | FDDEAYWE | V | | | | | | | |
| Rh#110 <i>Homo sapiens</i> | FDDQV | FWK FPHLAV | GF | | | | | | |
| Rh#111 <i>Gallus gallus</i> | FEDQMYWE | FPHLAV | GF | | | | | | |

| | |
|--|--|
| Rh#001.1 <i>Nitrosomonas europaea</i> | - |
| Rh#001.2 <i>Nitrosospira multiformis</i> | - |
| Rh#001.3 <i>Acidobacteria bacterium</i> | - |
| Rh#001.4 <i>Candidatus Kuenenia</i> | - |
| Rh#002 <i>Danio rerio</i> | - |
| Rh#003 <i>Takifugu rubripes</i> | - |
| Rh#004 <i>Takifugu rubripes</i> | - |
| Rh#005 <i>Takifugu rubripes</i> | - |
| Rh#006 <i>Tetraodon nigroviridis</i> | - |
| Rh#007 <i>Xenopus tropicalis</i> | - |
| Rh#008 <i>Chlamydomonas reinhardtii</i> | ENAA R P V Q P M V A G A G N V - |
| Rh#009 <i>Chlamydomonas reinhardtii</i> | SV P F L A F Q Q Q Q Q M A A A A A A H Q Y P Q P F M S T A V L M G G A A G G G G A N N D R P L F S D D V I G M E T A L A P V Q P M Q Q P A Y S Q A S A G P N N V |
| Rh#010 <i>Apis mellifera</i> | - |
| Rh#011 <i>Dictyostelium discoideum</i> | - |
| Rh#012 <i>Dictyostelium discoideum</i> | K K S H S E H Q P Q H Q P E E S T F N N N N N N N N N N A T A E T T D N G G S S T N S P T S K V - |
| Rh#013 <i>Geodia cydonium</i> | - |
| Rh#014 <i>Caenorhabditis elegans</i> | - |
| Rh#015 <i>Caenorhabditis briggsae</i> | - |
| Rh#016 <i>Caenorhabditis elegans</i> | - |
| Rh#017 <i>Caenorhabditis briggsae</i> | - |
| Rh#018 <i>Ciona intestinalis</i> | - |
| Rh#019 <i>Ciona intestinalis</i> | - |
| Rh#020 <i>Ciona intestinalis</i> | - |
| Rh#021 <i>Carcinus maenas</i> | - |
| Rh#022 <i>Anopheles gambiae</i> | - |
| Rh#023 <i>Drosophila pseudoobscura</i> | - |
| Rh#024 <i>Drosophila melanogaster</i> | - |
| Rh#025 <i>Ciona savignyi</i> | - |
| Rh#026 <i>Ciona savignyi</i> | - |
| Rh#027 <i>Ciona savignyi</i> | - |
| Rh#028 <i>Drosophila yakuba</i> | - |
| Rh#029 <i>Danio rerio</i> | - |
| Rh#030 <i>Salmo salar</i> | - |
| Rh#031 <i>Takifugu rubripes</i> | - |
| Rh#032 <i>Tetraodon nigroviridis</i> | - |
| Rh#033 <i>Xenopus laevis</i> | - |
| Rh#034 <i>Xenopus tropicalis</i> | - |
| Rh#035 <i>Gallus gallus</i> | - |
| Rh#036 <i>Mus musculus</i> | - |
| Rh#037 <i>Oncorhynchus mykiss</i> | - |
| Rh#038 <i>Rattus norvegicus</i> | - |
| Rh#039 <i>Bos taurus</i> | - |
| Rh#040 <i>Callithrix jacchus</i> | - |
| Rh#041 <i>Canis familiaris</i> | - |
| Rh#042 <i>Cebus apella</i> | - |
| Rh#043 <i>Macaca fascicularis</i> | - |
| Rh#044 <i>Macaca mulatta</i> | - |
| Rh#045 <i>Sus scrofa</i> | - |
| Rh#046 <i>Gorilla gorilla</i> | - |
| Rh#047 <i>Papio papio</i> | - |
| Rh#048 <i>Pongo pygmaeus</i> | - |
| Rh#049 <i>Pan troglodytes</i> | - |
| Rh#050 <i>Homo sapiens</i> | - |
| Rh#051 <i>Papio hamadryas</i> | - |
| Rh#052 <i>Takifugu rubripes</i> | - |
| Rh#053 <i>Danio rerio</i> | - |
| Rh#054 <i>Tetraodon nigroviridis</i> | - |
| Rh#055 <i>Ambystoma tigrinum</i> | - |
| Rh#056 <i>Xenopus laevis</i> | - |
| Rh#057 <i>Xenopus tropicalis</i> | - |
| Rh#058 <i>Gallus gallus</i> | - |
| Rh#059 <i>Mus musculus</i> | - |

Rh#060 *Rattus norvegicus*
Rh#061 *Bos taurus*
Rh#062 *Canis familiaris*
Rh#063 *Cebus apella*
Rh#064 *Gorilla gorilla*
Rh#065 *Hylobates sp*
Rh#066 *Macaca fascicularis*
Rh#067 *Macaca mulatta*
Rh#068 *Pongo pygmaeus*
Rh#069 *Pan troglodytes*
Rh#070 *Homo sapiens*
Rh#071 *Danio rerio*
Rh#072 *Takifugu rubripes*
Rh#073 *Oryctolagus cuniculus*
Rh#074 *Oryzias latipes*
Rh#075 *Tetraodon nigroviridis*
Rh#076 *Xenopus tropicalis*
Rh#077 *Xenopus laevis*
Rh#078 *Gallus gallus*
Rh#079 *Mus musculus*
Rh#080 *Rattus norvegicus*
Rh#081 *Canis familiaris*
Rh#082 *Bos taurus*
Rh#083 *Hylobates sp*
Rh#084 *Sus scrofa*
Rh#085 *Macaca mulatta*
Rh#086 *Papio hamadryas*
Rh#087 *Pongo pygmaeus*
Rh#088 *Gorilla gorilla*
Rh#089 *Pan troglodytes*
Rh#090 *Homo sapiens*
Rh#091 *Oncorhynchus mykiss*
Rh#092 *Danio rerio*
Rh#093 *Takifugu rubripes*
Rh#094 *Danio rerio*
Rh#095 *Oryctolagus cuniculus*
Rh#096 *Tetraodon nigroviridis*
Rh#097 *Oryzias latipes*
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Rh#099 *Xenopus laevis*
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Rh#107 *Homo sapiens*
Rh#108 *Takifugu rubripes*
Rh#109 *Tetraodon nigroviridis*
Rh#110 *Homo sapiens*
Rh#111 *Gallus gallus*