

vGFP_Montast -----MTSVAQEKGVIKPDMKMKLRMEGAVNGHKEVIEGDGKRPFDGTQMDLTVIEG--APLPFAYAILTVFDYGNRVFAKYPEDI-
vGFP_Monta_3 -----MTSVAQEKGVIKPDMKMKLRMEGAVNGHKEVIEGDGKRPFDGTQMDLTVIEG--APLPFAYDILTTFVDYGNRVFAKYPEDI-
vGFP_Monta_4 -----MSVIKPDMKIKLRMEGAVNGHKEVIEGDGKRPFDGTQMDLTVIEG--APLPFAYDILTTFVDYGNRVFAKYPQDI-
vGFP_Montast -----MSVIKPDMKIKLRMEGAVNGHKEVIEGDGKRPFDGTQMDLTVIEG--APLPFAYDILTTFVDYGNRVFAKYPQDI-
nGFP_Montast -----MSMIKPEMKIKMRMDGAVNGHKEVITGEGSGPFFEGKQTMNLTVIDG--GLPFAFDILTTFADYGNRVFAKYPEDI-
vGFP_Montast -----MSVIKSVMKIKLRMDGIVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--GLPFAFDILTTFADYGNRVFAKYPEDI-
vGFP_Monta_8 -----MSVIKPIKIKLRMDGIVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFAYDILTTFADYGNRVFAKYPEDI-
vGFP_cFP484_ MKCKKFVFLSFLVLAITNANIFLRNEADLEKTLRIPKALTTMGVIKPDMKIKLRMEGAVNGHKEVIEGDGKRPFDGTQMDLTVIEG--APLPFAYDILTTFADYGNRVFAKYPEDI-
dGFP_Dendron -----MNLIKEDMRVVKVHMEGAVNGHKEVIEGDGKRPFDGTQMDLTVIEG--APLPFAYDILTTFADYGNRVFAKYPEDI-
oGFP_Ricorde -----MNAIQEEMKIKLTMGVVNGQSFQIDGEGKRPYEGSQKLTLEVVKG--GLPFFSYDILTTFADYGNRVFAKYPEDI-
oGFP_Rico_12 -----MSALKEEMKIKLRMGVAVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--GLPFFSYDILTTFADYGNRVFAKYPEDI-
3GFP_Discoso -----MSALKEEMKIKLRMGVAVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--GLPFFSYDILTTFADYGNRVFAKYPEDI-
oRFP_Ricorde -----MSALKEEMKIKLTLVGVVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--GLPFFSYDILTTFADYGNRVFAKYPEDI-
bGFP2_Scolym -----MQSAGKKNVVKDFMKITLRMDGAVNGHKEVAVNGTGDGNPFGIQLSLKLTVDGN--KLPFAFDILSAAFYGNRAFTYKPEI-
bGFP1_Scolym -----MQRAGMK--VKEHMKIKLRMGSTVNGHKEVAVNGTGDGNPFGIQLSLKLTVDGN--KLPFAFDILSAAFYGNRAFTYKPEI-
2RFP_FP593_D -----MSCSKNVIKEFMRFKVRMEGTVNGHKEVIEGDGKRPYEGHCSVKLMVTGK--GLPFAFDILSPQFQYGSKVIVKHPADI-
ed_FP583_Dis -----MRSSKNVIKEFMRFKVRMEGTVNGHKEVIEGDGKRPYEGHNTVKLKVTKG--GLPFAFDILSPQFQYGSKVIVKHPADI-
nCP_Goniopor -----MSVIAKQMTYKVMYSGTVNGHKEVIEGDGKRPYEGHNTVKLKVTKG--GLPFAFDILSPQFQYGSKVIVKHPADI-
rGFP_dsFP483 -----MSCSKSVIKEEMLIDDLHLEGTGNGHKEVIEGDGKRPYEGHNTVKLKVTKG--GLPFGWHILCPQFQYGNRAFHVHPDNI-
rGFP_Agarici -----VNGIAEEMKTDLIMEGIVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFSDILTTFADYGNRVFAKYPEDI-
aGFP_Agarici -----MAISTLKNVIIIVIIYSCSTCAVWSNSNSSESSFTNGIAEEMKTRVHLEGTGNGHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFSDILTTFADYGNRVFAKYPEDI-
gGFP_Condyla -----MAGLLKESMRIKIYMEGTVNGYHKEVIEGDGKRPYEGHNTVKLKVTKG--APLPFAFDILSPCCAYGSKTFIKHTSGI-
gCP_Condylac -----MAGLLKESMRIKIYMEGTVNGYHKEVIEGDGKRPYEGHNTVKLKVTKG--APLPFAFDILSPCCAYGSKTFIKHTSGI-
sCP_Condylac -----MAGLLKESMRIKIYMEGTVNGYHKEVIEGDGKRPYEGHNTVKLKVTKG--APLPFAFDILSPCCAYGSKTFIKHTSGI-
iCP_Heteract -----MAGLLKESMRIKIYMEGTVNGHKEVIEGDGKRPYEGHNTVKLKVTKG--APLPFAFDILAPCCAYGSKTFIKHTSGI-
lRNP_Anemoni -----MASFLKKTMPFKTTIEGTGNGHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFAFDILSPCCAYGSKTFIKHTSGI-
lCP_Anemonia -----MASFLKKTMPFKTTIEGTGNGHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFAFDILSPCCAYGSKTFIKHTSGI-
adrFP_FP611 -----MNSLIKENMRMVMVMEGTVNGYHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFAFDILSPCCAYGSKTFIKHTSGI-
gGFP_Heterac -----MYSYIKETMRSKVYMEGTVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFAFDILSHAFYGNRVFAKYPEDI-
iGFP_Heterac -----MCSYIKETMRSKVYMEGTVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFAFDILSHAFYGNRVFAKYPEDI-
gGFP_Cond_32 -----MYPWIKETMRSKVYMEGTVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFAFDILSHAFYGNRVFAKYPEDI-
lGFP_Anemoni -----MYPWIKETMRVQLSMEGTVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFAFDILSHAFYGNRVFAKYPEDI-
eGFP_Renilla -----MSKQILKNTCLQEVMSYKVNLEGIIVNHFVMEGCGKGNILFNQLVQIRVTKG--APLPFAFDIVSFAFYGNRVFAKYPEDI-
lGFP_Ptilosa -----MNRNVLKNTCLKEIMSAKASVEGIIVNHFVMEGCGKGNILFNQLVQIRVTKG--APLPFAFDIVSFAFYGNRVFAKYPEDI-
GFP_Renilla -----MDLAKLGLKEVMPKINLEGLVGDHAFSMEGVGENILEGTQEVKISVTKG--APLPFAFDIVSFAFYGNRVFAKYPEDI-
nYFP_zFP538 -----MAHSKHGLKEEMTKYHMEGTVNGHKEVITGEGSIYFFKQKQINLVCVIEG--GLPFFSEDILSAGFYGNRVFAKYPEDI-
nGFP_zFP506 -----MAQSKHGLTKEMTKYHMEGTVNGHKEVITGEGSIYFFKQKQINLVCVIEG--GLPFAEDILSAAFNIGNRVFAKYPEDI-
n2RFP_Zoanth -----MAHSKHGLTDDMTMHRMEGTVNGHKEVITGEGSIYFFKQKQINLVCVIEG--GLPFFSEDILSAAFNIGNRVFAKYPEDI-
thGFP_Zoanth -----MALSKHGLDFDMMTKYHMEGTVNGHKEVITGEGSIYFFKQKQINLVCVIEG--GLPFFSEDILSAAFNIGNRVFAKYPEDI-
fp_Meandrina -----MAVPTQVMMKYSMDGNFNGQSHTVVGGEGTNPYEGHQSLKLTVDGN--KLPFAFDILSATFYGNRVFAKYPEDI-
jGFP_amFP486 -----MALSNEFKIGDDMKMTYHMDGCVNGHKEVITGEGSGPFFEGKQTMNLTVIEG--APLPFAFDILSATFYGNRVFAKYPEDI-
aGFP_Aequore -----MSKGEELFTGVVPLVLELDGCVHGHKEVITGEGSGPFFEGKQTMNLTVIEG--KLPVFWPTLVTLGIGILCFARYPEHMK-
cOFP_Aequore -----MSKGEELFTGVVPLVLELDGCVHGHKEVITGEGSGPFFEGKQTMNLTVIEG--KLPVFWPTLVTLGIGILCFARYPEHMK-
cGFP_Aequore -----MSKGEELFTGIVPLVLELDGCVHGHKEVITGEGSGPFFEGKQTMNLTVIEG--KLPVFWPTLVTLGIGIQCFARYPEHMK-
_Aequorea_vi -----MSKGEELFTGVVPLVLELDGCVHGHKEVITGEGSGPFFEGKQTMNLTVIEG--KLPVFWPTLVTLGIGIQCFARYPEHMK-
sensus -----like-mkikl-meG-vngh-F-i-geG-G-pfeGtqsm-1-v-eg--apLpFaydilst-f-YGnr-f-kyp-di-

vGFP_Monta_3 83 -ADYFKQTFP---EGYFWERSMITYEDQGICVATNDITLMKGVGD---DCFVYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
vGFP_Monta_4 76 -TDYFKQTFP---EGYFWERSMITYEDQGICVATNDITLMKGVGD---DCFVYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
vGFP_Montast 76 -PDYFKQTFP---EGYFWERSMITYEDQGICVATNDITLMKGVGD---DCFVYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
nGFP_Montast 76 -PDYFKQSFPP---EGYFWERSMITYEDGGICVATNDIKMEG---DCFSYKIRFDGYNFPANGPVMQKRTLKWEP---CTKEMYVR---DGVLRGDLNALLLEG---GGHFRCDLKTYYKAKK---
vGFP_Montast 76 -PDYFKQSFPP---EGYFWERSMITYEDQGICVATNDITLMKGVGD---DCFFYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
vGFP_Monta_8 76 -PDYFKQTFP---EGYFWERSMITYEDQGICVATNDITLMKGVGD---DCFVYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
vGFP_cFP484_ 118 -ADYFKQSFPP---EGYFWERSMITYEDKGIIVKVKSDISMEE---DSFYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
dGFP_Dendron 76 -TDYFKQSFPP---EGYFWERSMITYEDKGICTIRSDISLEG---DCFFYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
oGFP_Ricorde 76 -PDYFKQTCGGLDGGYSWQRMTIYEDGGVCTATSNVSVVG---DTFNYKIRFDGYNFPANGPVMQKRTLKWEP---SXEIXFER---DGLLRGDVNMALLLEG---GDHYRCDFKTTYKAKK---
oGFP_Rico_12 76 -PDYFKQTCGSPDGGFSWQRMTIYEDGGVCTASNHISVDG---DTFYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
oGFP_Discosco 76 -PDYFKQTCGSPDGGFSWQRMTIYEDGGVCTATSNVSVVG---DTFNYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
3RFP_Ricorde 76 -PDYFKQTCGSPGAGYSWQRMTIYEDGGVCTATSNVSVVG---DTFNYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
bGFP2_Scolym 82 -SDYFKQSFEPFG---EGFTWERSMITYEDGAVCVATNDIKMVG---DEFQYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
bGFP1_Scolym 80 -ADYFKQSFEPFG---EGFTWERSMITYEDGAVCVATNDITMVG---GEFYKIRFDGYNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
2RFP_FP593_D 80 -PDYFKLSFP---EGFKWERSMITYEDGGVTVTQDSSLDK---GCFYKIRFDGYNFPANGPVMQKRTLKWEP---STERLYPR---DGVLRGDIHALLLEG---GGHYLVEFKSIYMAKPP---
ed_FP583_Dis 80 -PDYFKLSFP---EGFKWERSMITYEDGGVTVTQDSSLDK---GCFYKIRFDGYNFPANGPVMQKRTLKWEP---STERLYPR---DGVLRGDIHALLLEG---GGHYLVEFKSIYMAKPP---
nCP_Goniopor 76 -PDYFKQSFPP---EGYFWERSMITYEDGAVCVATNDISLQ---NCFIYNVKKFGLNFPANGPVMQKRTLKWEP---NTERLFAR---DGLLRGDVNMALLLEG---GGHYLVEFKSIYMAKPP---
rGFP_dsFP483 80 -HDYFKLSFP---EGYFWERSMITYEDGGVCTATSNVSVVG---NCFYKIRFDGYNFPANGPVMQKRTLKWEP---NTERLFAR---DGLLRGDVNMALLLEG---GGHYLVEFKSIYMAKPP---
rGFP_Agarici 87 -PDYFKQTFP---EGYHWRNIPFEDQAVCTVTSHIRLEEEER---RFVNNVRFHCVNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
aGFP_Agarici 109 -PDYFKQTFP---EGYHWRNIPFEDQAVCTVTSHIRLEEEER---RFVNNVRFHCVNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
gGFP_Condyla 77 -PDYFKRSFP---EGFTWERTIYEDGRLVTAHQDTSLEG---NCFIYKVKVLTGTFNFPANGPVMQKRTLKWEP---STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
gCP_Condylac 77 -PDYFKQSFPP---EGFTWERTIYEDGGVLTAAHQDTSLEG---NCLLYKVKVLTGTFNFPANGPVMQKRTLKWEP---CTEIVYQD---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
sCP_Condylac 77 -PDYFKQSFPP---EGFTWERTIYEDGGVLTAAHQDTSLEG---NCLLYKVKVLTGTFNFPANGPVMQKRTLKWEP---CTEIVYQD---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
iCP_Heteract 77 -PDYFKQSFPP---EGFTWERTIYEDGGVLTAAHQDTSLEG---NCLLYKVKVLTGTFNFPANGPVMQKRTLKWEP---CTEIVYQD---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
lRNP_Anemonia 77 -PDYFKQSFPP---EGFTWERTIYEDGGVLTAAHQDTSLEG---DCLVYKVKVLTGTFNFPANGPVMQKRTLKWEP---ATEIVYEV---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
lCP_Anemonia 77 -PDYFKQSFPP---EGFTWERTIYEDGGVLTAAHQDTSLEG---DCLVYKVKVLTGTFNFPANGPVMQKRTLKWEP---ATEIVYEV---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
adrFP_FP611_ 77 -PDYFKQSFPP---EGFTWERTIYEDGGVLTAAHQDTSLEG---DCLVYKVKVLTGTFNFPANGPVMQKRTLKWEP---ATEIVYEV---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
gGFP_Heterac 77 -PDYFKQSLP---GGFTWERSMITYEDGGVLTAAHQDTSLEG---DCIICNKHVGTNFPANGPVMQKRTLKWEP---STETVIPR---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
iGFP_Heterac 77 -PDYFKQSLP---GGFTWERSMITYEDGGVLTAAHQDTSLEG---DCIICNKHVGTNFPANGPVMQKRTLKWEP---STETVIPR---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
gGFP_Cond_32 77 -PDYFKQSLP---GGFTWERSMITYEDGGVLTAAHQDTSLEG---DCIICNKHVGTNFPANGPVMQKRTLKWEP---STETVIPR---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
lGFP_Anemoni 77 -PDYFKQSLP---GGFTWERSMITYEDGGVLTAAHQDTSLEG---DCIICNKHVGTNFPANGPVMQKRTLKWEP---STETVIPR---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
eGFP_Renilla 83 -SDYFIQSFPP---AGFYERNIRYEDGGVLTAAHQDTSLEG---DKFYKIRFDGYNFPANGPVMQKRTLKWEP---SFEAMYMN---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
lGFP_Ptilosa 83 -ADYFVQSFPP---AGFYERNIRYEDGGVLTAAHQDTSLEG---DKFYKIRFDGYNFPANGPVMQKRTLKWEP---SFEAMYMN---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
gFP_Renilla_ 80 -SDYFLQSFPP---EGFTYERNIRYQDGGTAIVKSDISLED---GKFIYKIRFDGYNFPANGPVMQKRTLKWEP---SYESMYTN---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
nYFP_zFP538_ 80 -VDYFKNSCF---AGYTWGRSFLFEDGAVCICNADITVSVKE---NCFYKIRFDGYNFPANGPVMQKRTLKWEP---SCEKIIPVFPKQ---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
nGFP_zFP506_ 80 -VDYFKNSCF---AGYTWDRSFLFEDGAVCICNADITVSVKE---NCFYKIRFDGYNFPANGPVMQKRTLKWEP---SCEKIIPVFPKQ---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
n2RFP_Zoanth 80 -VDYFKNSCF---AGYTWDRSFLFEDGAVCICNADITVSVKE---NCFYKIRFDGYNFPANGPVMQKRTLKWEP---SCEKIIPVFPKQ---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
thGFP_Zoanth 80 -VDYFKNSCF---AGHTWQRSILFEDGAVCICNADITVSVKE---RCFYHESKFGVNFPPANGPVMQKRTLKWEP---SCEKIIPVFPNQG---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
fp_Meandrina 74 -TDYFKEAFP---GGLTWERSMITYEDGGVLTAAHQDTSLEG---SVFEHRSKFGVNFPPANGPVMQKRTLKWEP---STERMAAN---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
jGFP_amFP486 82 -PDYFKQAFP---DGMSYERTIYEDGGVLTAAHQDTSLEG---NCFEHSKFGVNFPPANGPVMQKRTLKWEP---SFEKMTVC---DGLLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---
aGFP_Aequore 80 MNDFFKSAMP---EGYIQERTIFFQDDGKYKTRGEVKEFG---DTLVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANNGLKVNFKIRHNEGGGVQLADHYQTNVPLGDG
oGFP_Aequore 80 MNDFFKSAMP---EGYIQERTIFFQDDGKYKTRGEVKEFG---DTLVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANNGLKVNFKIRHNEGGGVQLADHYQTNVPLGDG
cGFP_Aequore 80 MNDFFKSAMP---EGYIQERTIFFQDDGKYKTRGEVKEFG---DTLVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANNGLKVNFKIRHNEGGGVQLADHYQTNVPLGDG
_Aequorea_vi 80 QHDFFKSAMP---EGYVQERTIFYKDDGNYKSRGEVKEFG---DTLVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANNGLKVNFKIRHNEGGGVQLADHYQTNVPLGDG
sensus 121 -pDyfkqsfp---egfswersl-yedggvct-tndisleg---dcfvkyrfdgynfp-angpvmqkrtlkwep-STEMYAR---DGVLRGDVNMALLLEG---GGHYRCDFKTTYKAKK---

Q8I6J8_Kaede_T 183 G--V~~K~~L~~F~~G~~Y~~H~~F~~V~~D~~H~~C~~I~~S~~I~~L~~R~~R~~H~~D~~K~~D~~-Y~~N~~E~~V~~K~~L~~Y~~E~~H~~A~~V~~A~~H~~S~~G~~L~~F~~D~~N~~V~~K-----BAC20344.1 [AB085641]
 mcavRFP_Montast 183 G--V~~K~~L~~F~~PD~~Y~~H~~F~~ED~~H~~S~~T~~E~~I~~L~~R~~R~~H~~D~~K~~S-Y~~T~~E~~V~~K~~L~~Y~~E~~H~~A~~E~~A~~H~~S~~G~~L~~P~~R~~V~~A~~K-----AAK71336 [AY037770]
 mcavGFP_Montast 192 V--V~~Q~~L~~F~~PD~~Y~~H~~F~~V~~D~~H~~R~~I~~E~~I~~V~~S~~H~~D~~K~~D-Y~~N~~E~~V~~K~~L~~Y~~E~~H~~A~~E~~A~~H~~S~~G~~L~~P~~R~~Q~~A~~K-----AAK71334 [AY03768]
 mcavGFP_Monta_3 192 V--V~~R~~L~~F~~PD~~Y~~H~~F~~V~~D~~H~~R~~I~~E~~I~~V~~S~~H~~D~~K~~D-Y~~N~~E~~V~~K~~L~~Y~~E~~H~~A~~E~~A~~R~~H~~G~~L~~S~~R~~R~~A~~K-----AAK71335 [AY037769]
 mcavGFP_Monta_4 185 V--V~~R~~L~~F~~PD~~Y~~H~~F~~V~~D~~H~~R~~I~~E~~I~~V~~S~~H~~D~~K~~D-Y~~N~~E~~V~~K~~L~~Y~~E~~H~~A~~E~~A~~X~~X~~G~~L~~S~~R~~R~~A~~K-----AAK97633 [AF406766]
 mFavGFP_Montast 185 F--V~~Q~~L~~F~~PD~~Y~~H~~F~~V~~D~~H~~R~~I~~E~~I~~L~~S~~H~~D~~K~~D-Y~~N~~E~~V~~K~~L~~Y~~E~~H~~A~~E~~A~~H~~S~~G~~L~~P~~R~~Q~~A~~K-----AAK83923 [AF01282]
 manGFP_Montast 182 V--V~~Q~~M~~P~~DD~~Y~~H~~F~~V~~N~~H~~R~~I~~E~~I~~T~~W~~H~~D~~E~~D-Y~~N~~N~~V~~K~~L~~S~~E~~H~~A~~E~~A~~H~~S~~G~~L~~P~~R~~Q~~A~~K-----AAK1332 [AY03776]
 mcavGFP_Montast 182 G--V~~V~~L~~F~~PE~~Y~~H~~F~~V~~D~~H~~R~~I~~E~~I~~L~~S~~H~~D~~K~~D-Y~~N~~T~~V~~E~~V~~Y~~E~~M~~A~~V~~A~~R~~F~~S~~M~~L~~F~~V~~R~~A~~K~~-----AAL17905 [AY056460]
 mcavGFP_Monta_8 182 R--V~~Q~~L~~F~~PD~~Y~~H~~F~~V~~D~~H~~R~~I~~E~~I~~L~~S~~H~~D~~N~~D-Y~~N~~T~~V~~K~~L~~S~~E~~D~~A~~E~~A~~R~~Y~~S~~M~~L~~F~~S~~Q~~A~~K~~-----AAK62982 [AF384683]
 clavGFP_cFP484_ 224 V--V~~K~~L~~F~~PD~~Y~~H~~F~~V~~D~~H~~R~~I~~E~~I~~L~~N~~H~~D~~K~~D-Y~~N~~E~~V~~T~~L~~Y~~E~~M~~A~~V~~A~~R~~Y~~S~~L~~I~~P~~S~~Q~~A-----AAF03374 [AF168424]
 dendGFP_Dendron 182 V--V~~Q~~L~~F~~PD~~Y~~H~~F~~V~~D~~H~~R~~I~~E~~I~~L~~S~~N~~D~~S~~D-Y~~N~~E~~V~~K~~L~~Y~~E~~H~~G~~V~~A~~R~~Y~~S~~P~~I~~P~~K~~S~~G~~L~~V~~E~~V~~Q~~C~~K~~A~~I~~N~~T~~A-----AAM10625 [AF420591]
 rFloGFP_Ricorde 185 K--V~~K~~L~~F~~G~~Y~~H~~F~~V~~D~~H~~C~~I~~E~~I~~K~~S~~Q~~E~~N~~D-Y~~N~~N~~V~~A~~L~~T~~E~~D~~A~~V~~A~~H~~Y~~S~~F~~L~~E~~K~~K~~S~~Q~~A~~K~~A-----AAK71340 [AY037774]
 rFloGFP_Rico_12 185 K--V~~N~~M~~F~~G~~Y~~H~~F~~V~~D~~H~~C~~I~~E~~I~~Q~~K~~R~~D~~K~~D-Y~~N~~M~~A~~V~~L~~S~~E~~D~~A~~V~~A~~H~~N~~S~~F~~L~~E~~K~~K~~S~~Q~~A~~K~~A-----AAK71338 [AY037772]
 dis3GFP_Discosco 185 V--V~~K~~M~~P~~D~~Y~~H~~F~~V~~D~~H~~C~~I~~E~~I~~T~~S~~Q~~Q~~D~~Y-Y~~N~~V~~V~~E~~L~~T~~E~~V~~A~~E~~A~~R~~Y~~S~~S~~L~~E~~R~~I~~G~~K~~S~~K~~A-----AAM10627 [AF420593]
 rFloRFP_Ricorde 185 N--V~~K~~M~~P~~C~~Y~~H~~F~~V~~D~~H~~C~~I~~E~~I~~T~~S~~Q~~Q~~D~~D-Y~~N~~V~~V~~E~~L~~T~~E~~C~~A~~V~~A~~H~~Y~~S~~P~~L~~Q~~K~~D~~C~~Q~~A~~K~~A-----AAK71339 [AY037773]
 scubGFP2_Scolym 191 V~~F~~F~~T~~A~~L~~E~~X~~Y~~H~~Y~~V~~D~~H~~C~~I~~E~~I~~T~~E~~E~~N~~D-Y--V~~K~~L~~Q~~E~~T~~A~~K~~A~~R~~S~~G~~L~~H~~L~~E~~L~~Q~~K-----AAK71337 [AY037771]
 scubGFP1_Scolym 189 V~~F~~--H~~F~~F~~G~~Y~~H~~Y~~V~~D~~H~~C~~I~~E~~I~~L~~E~~E~~R~~K~~D~~-H--V~~K~~L~~R~~E~~H~~A~~K~~A~~R~~S~~L~~S~~E~~P~~T~~S~~A~~K~~E~~R~~K~~A-----AAK71333 [AY037767]
 dis2RFP_FP593_D 187 S--V~~Q~~L~~F~~PG~~Y~~Y~~V~~D~~S~~K~~L~~D~~M~~T~~S~~H~~N~~E~~D~~-Y~~T~~V~~V~~E~~Q~~Y~~E~~K~~T~~Q~~G~~R~~H~~H~~P~~F~~I~~K~~P~~L~~Q~~-----AAG16224 [AF272711]
 DeRed_FP583_Dis 187 ---V~~Q~~L~~F~~PG~~Y~~Y~~V~~D~~S~~K~~L~~D~~T~~T~~S~~H~~N~~E~~D~~-Y~~T~~V~~V~~E~~Q~~Y~~E~~R~~T~~E~~G~~R~~H~~H~~L~~F~~L~~-----AAF03369 [AF168419]
 gtenCF_Coniepor 183 ---V~~R~~M~~F~~G~~Y~~H~~Y~~V~~D~~R~~K~~L~~D~~V~~T~~N~~H~~N~~I~~D-Y~~T~~S~~V~~E~~Q~~C~~E~~I~~S~~I~~A~~R~~K~~P~~V~~V~~A~~-----AAL33912 [AF383156]
 dsIRGFP_dsRF483 187 A--V~~K~~N~~F~~G~~Y~~H~~Y~~V~~D~~I~~K~~L~~V~~I~~N~~N~~D~~K~~E~~-F~~M~~E~~V~~E~~S~~E~~L~~A~~V~~A~~K~~H~~H~~F~~F~~Y~~E~~F~~K~~K~~D~~K-----AAF03370 [AF168420]
 agarGFP_Agarici 199 IS--N~~F~~D~~F~~H~~T~~I~~D~~H~~R~~I~~M~~I~~T~~N~~H~~D~~E~~D-Y~~T~~N~~V~~E~~L~~R~~E~~V~~A~~L~~A~~R~~Y~~S~~T~~L~~E~~P~~I~~-----AAK71341 [AY037775]
 aFraGFP_Agarici 218 VR--D~~M~~P~~D~~F~~H~~T~~I~~D~~H~~R~~I~~E~~I~~T~~E~~H~~D~~E~~D~~-Y~~T~~N~~V~~E~~L~~H~~D~~V~~S~~W~~A~~R~~Y~~S~~M~~L~~P~~T~~M~~-----AAK71331 [AY037765]
 cgigGFP_Condyla 184 C-AL~~T~~M~~F~~PG~~F~~H~~F~~AD~~L~~R~~I~~Q~~M~~P~~K~~K~~K~~-K-DE~~F~~E~~L~~Y~~E~~A~~S~~V~~A~~R~~Y~~S~~D~~V~~P~~E~~K~~A~~T~~-----AAK71342 [AY037776]
 cgigCF_Condylac 184 C-AL~~T~~M~~F~~PG~~F~~H~~F~~AD~~L~~R~~I~~Q~~M~~P~~K~~K~~K~~-K-DE~~F~~E~~L~~Y~~E~~A~~S~~V~~A~~R~~Y~~S~~D~~V~~P~~E~~K~~A~~T~~-----AAL27537 [AF383775]
 cpasCF_Condylac 184 C-AL~~T~~M~~F~~PG~~F~~H~~F~~AD~~L~~R~~I~~Q~~M~~P~~K~~K~~K~~-S-DE~~F~~E~~L~~Y~~E~~A~~S~~V~~A~~R~~Y~~S~~D~~L~~I~~P~~E~~K~~A~~N-----AAL27541 [AF383155]
 hcriCF_Heteract 183 VRAL~~T~~M~~F~~PG~~F~~H~~F~~T~~D~~IR~~L~~Q~~M~~PR~~K~~K-K-DE~~F~~E~~L~~Y~~E~~A~~S~~V~~A~~R~~Y~~S~~D~~L~~I~~P~~E~~K~~A~~N-----AAL27538 [AF363776]
 asulRNP_Anenoni 184 ASAL~~K~~M~~F~~CG~~F~~H~~F~~CD~~H~~R~~I~~E~~I~~M~~E~~E~~V~~E~~K~~-G~~K~~C~~Y~~K~~Q~~Y~~E~~L~~A~~V~~A~~R~~Y~~C~~D~~A~~A~~P~~S~~K~~L~~C~~H~~H-----AAG41206 [AF322222]
 asulCF_Anenonia 184 ASAL~~K~~M~~F~~CG~~F~~H~~F~~ED~~H~~R~~I~~E~~I~~M~~E~~E~~V~~E~~K~~-G~~K~~C~~Y~~K~~Q~~Y~~E~~A~~A~~V~~G~~R~~Y~~C~~D~~A~~A~~P~~S~~K~~L~~G~~H~~N-----AAG02985 [AF246709]
 equadrFP_FP611_ 184 VEN~~F~~K~~M~~PG~~F~~H~~F~~V~~D~~H~~R~~L~~E~~R~~L~~E~~S~~SDK-E~~H~~F~~V~~V~~Q~~H~~E~~H~~A~~V~~A~~K~~F~~CD~~L~~I~~P~~S~~K~~L~~G~~R~~L~~-----AAN05449.1 [AY130757]
 hnaqGFP_Heterac 185 V--N~~L~~E~~K~~L~~H~~F~~H~~H~~I~~R~~M~~E~~K~~D~~S~~I~~S~~D~~D~~-E~~K~~T~~I~~K~~H~~Q~~H~~D~~V~~R~~A~~S~~Y~~F~~N~~V~~R~~F~~D~~E~~S~~S-----AAD16871.1 [AY157666]
 hcriGFP_Heterac 185 G---E~~D~~A~~K~~P~~H~~F~~H~~H~~I~~R~~M~~E~~K~~D~~S~~V~~S~~D~~D~~-E~~K~~T~~I~~Q~~H~~E~~N~~V~~R~~A~~S~~Y~~F~~N~~D~~S~~G~~K-----AAM10626 [AF420592]
 cgigGFP_Cond_32 185 V--K~~L~~F~~E~~L~~H~~F~~H~~H~~I~~R~~M~~E~~K~~L~~S~~V~~S~~D~~D~~-G~~K~~T~~I~~K~~H~~Q~~H~~E~~Y~~V~~V~~A~~S~~Y~~S~~K~~V~~F~~S~~K~~I~~G~~R~~Q-----AAK71343 [AY037771]
 asulGFP_Anenoni1 184 V--K~~L~~F~~E~~L~~H~~F~~H~~H~~I~~R~~M~~E~~K~~L~~N~~I~~S~~D~~D~~-W~~K~~T~~V~~E~~Q~~H~~E~~S~~V~~V~~A~~S~~Y~~S~~Q~~V~~P~~S~~K~~L~~G~~H~~N~~-----AAG41205 [AF322221]
 rmueGFP_Renilla 190 --V~~K~~E~~F~~F~~S~~Y~~H~~F~~I~~Q~~H~~R~~L~~E~~K~~T~~Y~~V~~E~~D~~G~~-G-F~~V~~E~~Q~~H~~E~~T~~A~~I~~A~~Q~~M~~T~~S~~I~~G~~K~~P~~L~~G~~S~~L~~H~~E~~W~~V~~-----AAG54098 [AY015996]
 ptilGFP_Ptilioea 190 --V~~K~~E~~F~~F~~E~~Y~~H~~F~~I~~H~~H~~R~~L~~E~~K~~T~~Y~~V~~E~~B~~C~~-S-F~~V~~E~~Q~~H~~E~~T~~A~~I~~A~~Q~~L~~T~~T~~I~~C~~K~~D~~L~~C~~S~~L~~H~~E~~W~~V~~-----AAG54097 [AY015995]
 renGFP_Renilla_ 187 --V~~E~~T~~N~~E~~L~~Y~~H~~F~~I~~Q~~H~~R~~L~~V~~K~~I~~N~~V~~D~~T~~A~~-S~~G~~Y~~V~~V~~Q~~H~~E~~T~~A~~I~~A~~A~~N~~S~~T~~I~~N~~K~~I~~E~~G~~S~~L~~F-----AAK54757 [AF372525]
 zoanYFP_zFP538_ 191 P--S~~K~~M~~P~~E~~W~~H~~F~~I~~Q~~H~~L~~L~~R~~E~~D~~R~~S~~D~~A~~K~~N~~Q~~E~~W~~Q~~L~~T~~E~~H~~A~~I~~A~~F~~P~~S~~A~~L~~A-----AAF03373 [AF168423]
 zoanGFP_zFP506_ 191 P--R~~K~~M~~P~~D~~W~~H~~F~~I~~Q~~H~~L~~L~~T~~R~~E~~D~~R~~S~~D~~A~~K~~N~~Q~~E~~W~~H~~L~~T~~E~~H~~A~~I~~A~~S~~G~~S~~A~~L~~P~~-----AAF03372 [AF168422]
 zoan2RFP_Zoanth 191 P--K~~E~~M~~P~~D~~W~~H~~F~~I~~Q~~H~~L~~L~~N~~R~~E~~D~~R~~S~~D~~A~~K~~N~~Q~~E~~W~~Q~~L~~L~~E~~H~~A~~I~~A~~S~~R~~S~~A~~L~~P~~-----AAL23574 [AY059642]
 zoathGFP_Zoanth 191 P--K~~E~~M~~P~~D~~R~~H~~F~~I~~Q~~H~~L~~L~~T~~R~~E~~D~~R~~S~~D~~A~~K~~N~~Q~~E~~W~~Q~~L~~L~~E~~H~~A~~R~~A~~V~~A~~S~~L~~S~~A~~L~~P~~-----AAO49327 [AF482451.1]
 mngip_Meandrina 180 A--V~~K~~N~~F~~DN~~H~~F~~V~~W~~H~~R~~L~~V~~R~~---N~~G~~D~~G~~N~~T~~-V~~E~~L~~S~~T~~A~~E~~A~~R~~Y~~D~~S~~-----AAO07032.1 [AY155343]
 anaJGFP_anFP486 188 P--V~~T~~M~~F~~PN~~H~~V~~V~~E~~H~~R~~I~~A~~R~~T~~D~~I~~D~~K~~G~~G~~N~~S-V~~Q~~L~~T~~E~~H~~A~~V~~A~~H~~I~~T~~S~~V~~V~~P~~F-----AAF03371 [AF168421]
 anaGFP_Aequorea 192 P--V~~L~~T~~F~~IN~~H~~Y~~L~~S~~T~~Q~~T~~A~~I~~S~~K~~D~~R~~N~~E~~T~~R~~D~~H~~M~~V~~F~~L~~E~~F~~F~~S~~A~~C~~G~~H~~T~~H~~G~~M~~D~~E~~L~~Y~~K-----AAL33918 [AF435433]
 anaCGFP_Aequorea 192 P--V~~L~~T~~F~~IN~~H~~Y~~L~~S~~Y~~Q~~T~~A~~I~~S~~K~~D~~R~~N~~E~~T~~R~~D~~H~~M~~V~~F~~L~~E~~F~~F~~S~~A~~C~~G~~H~~T~~H~~G~~M~~D~~E~~L~~Y~~K-----AAL33917 [AF435432]
 anaCGFP_Aequorea 192 P--V~~L~~T~~F~~IN~~H~~Y~~L~~S~~I~~Q~~T~~A~~I~~S~~K~~D~~R~~N~~E~~T~~R~~D~~H~~M~~V~~F~~L~~E~~F~~F~~S~~A~~C~~G~~H~~T~~H~~G~~M~~D~~E~~L~~Y~~K-----AAL33912 [AF435427]
 GFP_Aequorea_vi 192 P--V~~L~~L~~E~~DN~~H~~Y~~L~~S~~T~~Q~~S~~A~~L~~S~~K~~D~~P~~N~~E~~K~~R~~D~~H~~M~~L~~L~~E~~F~~V~~T~~A~~G~~I~~T~~H~~G~~M~~D~~E~~L~~Y~~K-----AAA27722 [M62654]
 consensus 241 ---v-lp-yhfvdhriei-----d---v-l-e-ava--s-l-----