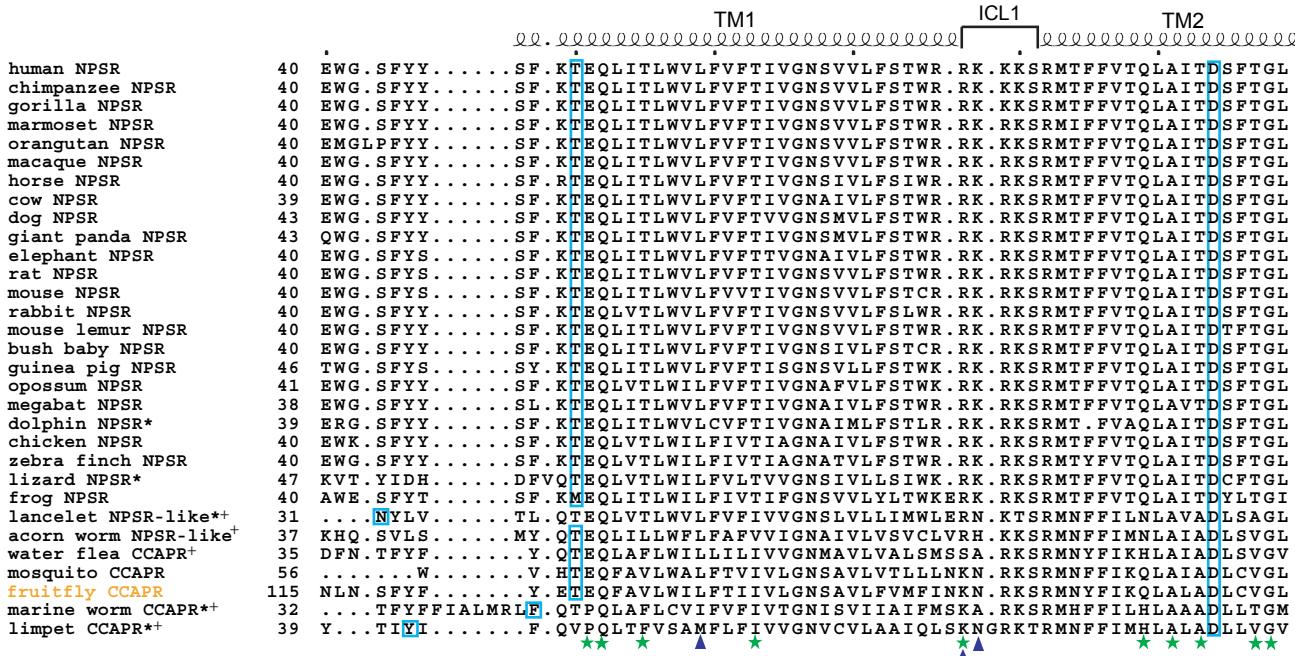
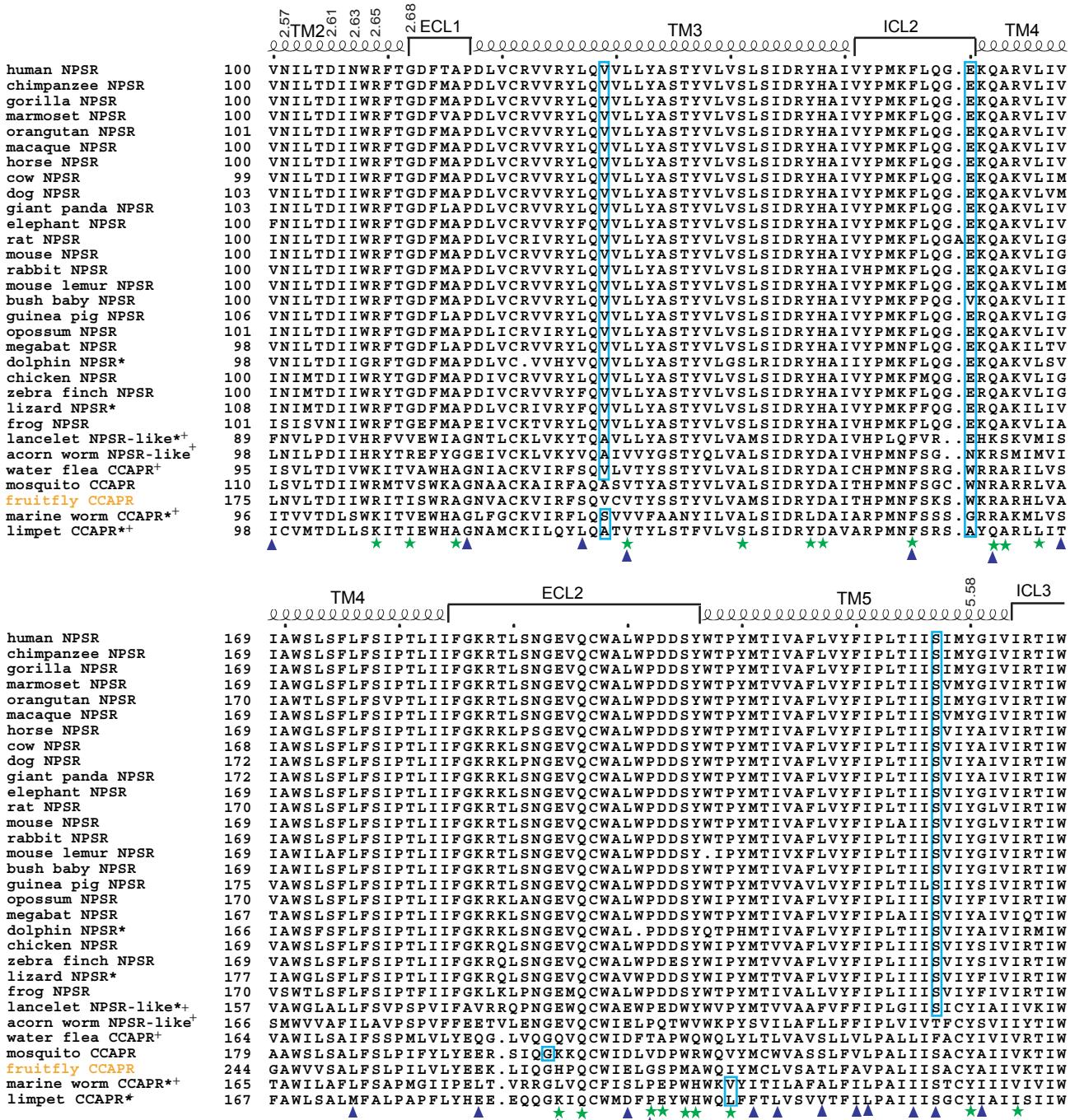


|                               |    |   |                                     |
|-------------------------------|----|---|-------------------------------------|
| human NPSR                    | 1  | MPANF.....TEGSFDS.....SGTG.....QT.....        | LDSSPV.ACETETVTFTEVVEGK             |
| chimpanzee NPSR               | 1  | MPANF.....TEGSFDS.....SGTG.....QT.....        | LDSSPV.ACETETVTFTEVVEGK             |
| gorilla NPSR                  | 1  | MPANF.....TEGSFDS.....SGTG.....QT.....        | LDSSPV.ACETETVTFTEVVEGK             |
| marmoset NPSR                 | 1  | MPANF.....TESSLDS.....NGTR.....QT.....        | PDSSPV.ACETETVTFTEVVEGK             |
| orangutan NPSR                | 1  | MPANF.....TEGSFDS.....SGTG.....QT.....        | LDSSPV.ACETETVTFTEVVEGK             |
| macaque NPSR                  | 1  | MPANF.....TEGSFDS.....NGTG.....QM.....        | LDSSPV.ACETETVTFTEVVEGK             |
| horse NPSR                    | 1  | MPANL.....TEGSPNS.....NGTM.....QT.....        | LDSSPV.LCTGTVTFTEVVEGE              |
| cow NPSR                      | 1  | MPANL.....TEGSAKS.....NGTG.....QA.....        | LN.SPV.LCTETVTFTAEVEGE              |
| dog NPSR                      | 1  | MPAHL.....AEASPDSSHPSGAT.....QT.....          | LEASPV.LCTEVVFTQVVERE               |
| giant panda NPSR              | 1  | MPANL.....TEGSPDSNDAASGTT.....QT.....         | LDASPV.LCTETVTFTEVVEGE              |
| elephant NPSR                 | 1  | MPANL.....TEGSPDS.....SGTT.....QM.....        | LDSSPA.ACSETVTVTFEVVEGE             |
| rat NPSR                      | 1  | MPANL.....TEGSFHA.....NQTV.....PM.....        | LDSSPV.ACTEIVTFTEALEAE              |
| mouse NPSR                    | 1  | MPANL.....TEGSFHA.....NQTV.....PM.....        | LDSSPV.ACTEIVTFTEALVAE              |
| rabbit NPSR                   | 1  | MPANH.....TEGSPNS.....TQST.....LT.....        | QGSSPA.TCTETETFTEVVEGE              |
| mouse lemur NPSR              | 1  | MAAHL.....TEGSPNS.....SGTT.....QT.....        | LDSSPV.ACETETVTVTEVVEGE             |
| bush baby NPSR                | 1  | MPANL.....TEGSPNS.....GGTT.....QT.....        | PAPSLV.ACDTDVTFTEVVAEGE             |
| guinea pig NPSR               | 1  | MPSHR.....PQDHSSI.....VAQATPSLDASS.....       | LDAALV.ACDTDVTFTEVVEGE              |
| opossum NPSR                  | 1  | MQVNG.....TEGSWAV.....NGTM.....EP.....        | LDAQPLDTCAETVTSPEGAEQE              |
| megabat NPSR                  | 1  | MPANL.....TEGSPNS.....NGTM.....QT.....        | LDSSTA.TCFPTT..LQEVEEEE             |
| dolphin NPSR*                 | 1  | MPANL.....TEGSPKS.....IGTG.....QT.....        | LD.SPI.LCTETVTFAVVEGE               |
| chicken NPSR                  | 1  | MEVGP.....TAASSSS.....PAGT.....GW.....        | LDVTLV.TCTDTVTFTEVLEEE              |
| zebra finch NPSR              | 1  | MEVNS.....TEAASSSS.....QGGT.....SC.....       | DLDTLV.TFTETVTFTEVVAEE              |
| lizard NPSR*                  | 1  | MDSTFIYII.....SESAYKH.....HSHK.....QCPVS..... | LFGHKC.PCFLYVVTLYSTYGR              |
| frog NPSR                     | 1  | MQVSF.....AEASDFS.....NTSS.....GT.....        | LNLTLT.NCTSANSADIEEEY               |
| lancelet NPSR-like**          | 1  | MPFFS.....RYQNRVY.....QA.....                 | WALEIV..ALSTVTPPPF....              |
| acorn worm NPSR-like*         | 1  | MTSKL.....NEMKYAA.....VMGA.....               | FINTTV..YNNNTVNNNSTYDIPE            |
| water flea CCAPR <sup>+</sup> | 1  | MGDDD.....SCLERTW.....                        | FNSDQLAGEELNLCPSPSNSTED             |
| mosquito CCAPR                | 1  | MTASKWATIQDNFVIGHDVSVSHPALRTA.....            | SIVVLPSRSPNTHAVATRLPDDDE.....       |
| fruitfly CCAPR                | 71 | MLAPT.....PTTA.....                           | TTAAAATTSPGSDFQAAAAAAAGDNATSPYAGELD |
| marine worm CCAPR**           | 1  | MLVVL.....LSFEPHL.....                        | MLLEQFHRRNVTSDFIGNLQ                |
| limpet CCAPR**                | 1  | MNHHS.....YKYFSVPLSL.....VI.....              | LINFLC.QCLEMYSYDVILEGS              |





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TM6

|                               |     |   |   |   |
|-------------------------------|-----|---|---|---|
| human NPSR                    | 239 | I K S K T Y . E T V I . . . S N . . . . .       | C S D G K . . . . .                       | L C S S Y . N R G L I S K A K I K A I K Y S I I I I L A F I C C W S                 |
| chimpanzee NPSR               | 239 | I K S K T Y . E T V I . . . S N . . . . .       | C S D G K . . . . .                       | L C S S Y . N R G L I S K A K I K A I K Y S I I I I L A F I C C W S                 |
| gorilla NPSR                  | 239 | I K S K T Y . E T V I . . . S N . . . . .       | C S D G K . . . . .                       | L C S S Y . N R G L I S K A K I K A I K Y S I I I I L A F I C C W S                 |
| marmoset NPSR                 | 239 | I K S K T Y . E S V I . . . S N . . . . .       | C S D G K . . . . .                       | L C S R Y . N R G P I S K A K L K A I K Y S I V I I L A F I C C W S                 |
| orangutan NPSR                | 240 | I K S K T Y . E T V I . . . S N . . . . .       | C S D G K . . . . .                       | L C S S Y . N R G L I S K A K I K A I K Y S I I I I L A F I C C W S                 |
| macaque NPSR                  | 239 | I K S K T Y . E T V I . . . S N . . . . .       | C S D G K . . . . .                       | L C S S Y . N R G L I S K A K I K A I K Y S I V I I L A F I C C W S                 |
| horse NPSR                    | 239 | T K S K A S . E T V I . . . S N . . . . .       | C S D G K . . . . .                       | L C T S Y . N R G L I S K A K I K A I K Y S I V I I L A F I C C W S                 |
| cow NPSR                      | 238 | V K S K A Y . E T V I . . . S N . . . . .       | C S D G K . . . . .                       | L C T S Y . N R G L I S K A K I K A I K Y S I V I I L A F I C C W S                 |
| dog NPSR                      | 242 | I K S K A H . E T V I . . . S N . . . . .       | C S G G K . . . . .                       | L C T S Y . N R G L I S K A K I K A I K Y S I V I I L A F I C C W S                 |
| giant panda NPSR              | 242 | I K S K A H . E T V I . . . S N . . . . .       | C L D G K . . . . .                       | L C T S Y . H R G L I S K A K I K A I K Y S I V I I L A F I C C W S                 |
| elephant NPSR                 | 239 | I K S K A H . D M V I . . . S N . . . . .       | C S N G K . . . . .                       | L C T S Y . N R R L I S K A K I K A I K Y S V V I I L A F I C C W S                 |
| rat NPSR                      | 240 | I K S K A H . E T V I . . . S N . . . . .       | C S D G E . . . . .                       | L C C S Y . N R G L I S K A K I K A I K Y S I V I I L A F I C C W S                 |
| mouse NPSR                    | 239 | M K S K T H . E T V I . . . S N . . . . .       | C S D G K . . . . .                       | L C C S Y . N R G L I S K A K I K A I K Y S I V I I L A F I C C W S                 |
| rabbit NPSR                   | 239 | V K S K A C . E T V N . . . S N . . . . .       | C S D G K . . . . .                       | L C T S Y . N R G L I S K A K I K A V K Y S S A I I L A F I C C W S                 |
| mouse lemur NPSR              | 238 | I K S K A H . E T V I . . . S N . . . . .       | C S G G K . . . . .                       | L C T S Y . N R G L I S K A K I K A I K Y S I V I I L A F I C C W S                 |
| bush baby NPSR                | 239 | I K S K A H . D S V I . . . S N . . . . .       | C S G G K . . . . .                       | L C T S Y . N R G L I S K A K I K A I K Y S I V I I L A F I C C W S                 |
| guinea pig NPSR               | 245 | M K S K A P . E T V I . . . S N . . . . .       | Y S D G K . . . . .                       | L C T S Y . N R G F I S K A K V K A I K Y S I V I V L A F T I C W S                 |
| opossum NPSR                  | 240 | I K S K A H . D M I I . . . S N . . . . .       | C S E G K . . . . .                       | L C S Y . N R G V I S K A K V K A I K Y S I V I I F A V I C W S                     |
| megabat NPSR                  | 237 | M K S K G H D E S V I . . . S N . . . . .       | C S D G K . . . . .                       | L C T S Y . N R G L I S K A K I K A I K Y S M V I I L A F I C C W S                 |
| dolphin NPSR*                 | 235 | V K S K A H . E T E I . . . S S . . . . .       | C S D G K . . . . .                       | R C T I S . N . G L I S K A K I N A I K Y S I V I I L A F I C C W S                 |
| chicken NPSR                  | 239 | M K S K A Q . A V I V . . . S S . . . . .       | C T D G K . . . . .                       | T S A G Y T S R G F I S R A K V K A I K Y S I V I V L A F I L C W S                 |
| zebra finch NPSR              | 239 | M K S K A Q . A A I I . . . S S . . . . .       | C P G G K . . . . .                       | T S R G Y T S R G F I S R A K V K A I K Y S I V I I L A F I L C W S                 |
| lizard NPSR*                  | 247 | T K S K A H . A I I V . . . S N . . . . .       | C S D G N . . . . .                       | F C T S Y T H R G L I S K A K I K A V K Y S S A V I I L A F I L C W S               |
| frog NPSR                     | 240 | V K S K G H . A V I I . . . S N . . . . .       | Y T D G N . . . . .                       | F C T S Y S H R G L I S K A K M K A I K Y S I V I V L A F I L C W S                 |
| lancelet NPSR-like*           | 227 | K R G K G M . A Y E D H I P R S R . . . . .     | A S S G K N F Y R I F H L I H . . . . .   | M N G F T S R A K A R T I K L S V A I I L A F I C C W S                             |
| acorn worm NPSR-like*         | 236 | R K S K M M . V P A K . . . R R I F N . . . . . | E K N G D . . . . .                       | S R G L I P K A K I K T I K M T L C V I L S F I V C W S                             |
| water flea CCAPR <sup>+</sup> | 233 | V Q S A I F . L G I N . . . . .                 | R A G G S A G T A M L D E D Q E . . . . . | S R R A . S S R G I I P R A K V K T V K M T F V I V F V I L C W A                   |
| mosquito CCAPR                | 248 | A K G A I M . G P I D . . . . .                 | R T R N G M A . . . . .                   | S R R A . S S R G I I P R A K V K T V K M T I V I V F V I L C W S                   |
| fruitfly CCAPR                | 313 | A K G S V P . V P T D . . . . .                 | R A . G F G . . . . .                     | T R R A . S S R G I I P R A K V T V K M T L T I V F V I C W S                       |
| marine worm CCAPR**           | 234 | S K G N V S . T T S N . . . . .                 | K R . . . . .                             | E S T T . S S R G M I P K A R I T K I M T F A I V T F V I C W V                     |
| limpet CCAPR**                | 236 | S K G Q S R R D G M D . . . . .                 | E T H N L P R . . . . .                   | I G S R E H M V C R R T N S N R G I I P Q A K I R T I K M T L I I V I V F I L C W S |

Sequence alignment of NPSR-like receptors from various species. The alignment shows TM6, ECL3, TM7, and Helix 8 regions. A blue box highlights a conserved sequence motif in the TM7 region.

|                                   | TM6   | ECL3            | TM7          | Helix 8     |
|-----------------------------------|---|-----------------|--------------|-------------|
| human NPSR                        | ...   | ...             | ...          | ...         |
| chimpanzee NPSR                   | 289 PYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFP    | PCRV            | ...          | ...         |
| gorilla NPSR                      | 289 PYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFP    | CRV             | ...          | ...         |
| marmoset NPSR                     | 289 PYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAMNPLIYCVFSSSISFP    | CRVA            | ...          | ...         |
| orangutan NPSR                    | 289 PYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFP    | CRGE            | ...          | ...         |
| macaque NPSR                      | 289 PYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFP    | CGD             | ...          | ...         |
| horse NPSR                        | 289 PYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFP    | CPCRE           | ...          | ...         |
| cow NPSR                          | 288 PYFLFDILDNFNSLPPNTKERFYASVIIQNLPALNSAINPLIYCVFSSSICFP   | CPCRE           | ...          | ...         |
| dog NPSR                          | 292 PYFLFDILDNFNSLPPDTKERFYASVIIQNLPALNSAINPLIYCVFSSSICFP   | CRE             | ...          | ...         |
| giant panda NPSR                  | 292 PYFFFIDLDNFRLLPDTTEERFYASVIIQNLPALNSAVNPYIYCVFSSSVCF    | PCRE            | ...          | ...         |
| elephant NPSR                     | 289 PYFLFDILDNFNSILPDTKERFYASVIIQNLPALNSAINPLIYCAFSSSICFP   | CRE             | ...          | ...         |
| rat NPSR                          | 290 PYFLFDMLDNFNLLPDTKERFYASVIIQNLPALNSAINPLIYCIFSGSLCSPCK  | V               | ...          | ...         |
| mouse NPSR                        | 289 PYFLFDILDNFNVLPPDTKERFYASVIIQNLPALNSAINPLIYCFSSSICSPCK  | M               | ...          | ...         |
| rabbit NPSR                       | 289 PYFLFDILDNFNVLPPNTKERFYASVIIQNLPALNSAINPLIYCVFSSSTVCF   | FPFRE           | ...          | ...         |
| mouse lemur NPSR                  | 288 PYFLFDILDNFNLLPDTKERFYASVIIQNLPALNSAINPLIYCAFSSSICFP    | WG              | ...          | ...         |
| bush baby NPSR                    | 289 PYFLFDILDNFNSLPPDTKERFYASVIIQNLPALR.INPLVYCAFS.SIC.PWGA | ...             | ...          | ...         |
| guinea pig NPSR                   | 295 PYFLFDILDNFNSLPPDTKERFYASVIIQNLPALNSAINPLIYCAFNRPICFP   | CRE             | ...          | ...         |
| opossum NPSR                      | 290 PYFLFDILDNFNSLPPDTKERFYASVIIQNLPALNSAINPLIYCLFSNSLCYP   | CRE             | ...          | ...         |
| megabat NPSR                      | 288 PYFLFDMLDNFGNLPPDTTEERFYASVIIQNLPALNSAINPLIYCFSSSLCP    | PRRV            | ...          | ...         |
| dolphin NPSR*                     | 284 PYFLFDILDNFNSLPPNTKERFYASVIIQNLPALNNAINPLIYCVFSSSICFP   | CGA             | ...          | ...         |
| chicken NPSR                      | 290 PYFLFDILDNFNILPETKERFYASVIIQNLPALNSAINPLIYCLFSNHLC      | TPFRE           | ...          | ...         |
| zebra finch NPSR                  | 290 PYFLFDILDNFNILPETKERFYASVIIQNLPALNSAVNPYIYCVFSSSVCF     | PCSEE           | ...          | ...         |
| lizard NPSR*                      | 298 PYFLFDILDNFNSILPDTKERFYAAVIIQNLPALNSAINPIIYCI           | FSDTLQCQAFRS    | ...          | ...         |
| frog NPSR                         | 291 PYFLFDILDNFEMLPETKERFYASVIIQHLPFLNSAINPIIYCVFSNRHC      | LSRD            | ...          | ...         |
| lancelet NPSR-like**              | 287 PYFLFDILDNDYDALPDTQAKKEASLTIQNLPALNSAINPLIYGF           | STKLYKLRG       | ...          | ...         |
| acorn worm NPSR-like <sup>+</sup> | 284 PFTLWFLEIYGHIPKNDLTMTIIVQNLPLNSLNSATNP                  | AIYGLFSTNICKE   | LRC          | ...         |
| water flea CCAPR <sup>+</sup>     | 292 PYIVFDLLQVYGHIPKS                                       | TMTMIAVATFIQ    | SIA          | ...         |
| mosquito CCAPR                    | 301 PYIVFDLLQVFGQI  | PETQTNIAVATFIQ  | SIA          | ...         |
| fruitfly CCAPR                    | 364 PYIIFDLDLQVFGQI   | HPSQNTNIAIATFIQ | SIA          | ...         |
| marine worm CCAPR <sup>++</sup>   | 286 PFFVFDLADVYGLIPRTKH                                     | KRAIAIFIQ       | SIA          | ...         |
| limpet CCAPR <sup>++</sup>        | 298 PFFIINYILEYETIPINP..                                    | LSTFIQSA        | PLNSAANPIIYF | IFSTRICVNLR |

### HELIX 8

|                                   |     |   |  |  |
|-----------------------------------|-----|---|--|--|
| human NPSR                        | 344 | . | I  | RLRQL.....QEAALMLCPQR.....E.NWK.....GTWP                                 |
| chimpanzee NPSR                   | 344 | . | I  | PLRQL.....QEAALTLCPQR.....Q.NWK.....GTWP                                 |
| gorilla NPSR                      | 344 | . | N  | SSVYLLACDVSVLWALVPTEKESCE.SWRKGAKITG..FQND                               |
| marmoset NPSR                     | 344 | . | S  | SSTVYLLACDVAVLWGLVLPGGKENCE.SLRRKGAKITG..FQND                            |
| orangutan NPSR                    | 345 | . | R  | RRS.....QDSRMTFRERT.....E.RHE.....MQIL                                   |
| macaque NPSR                      | 344 | . | R  | RRS.....QDSRMTFRERT.....E.RHE.....MQIL                                   |
| horse NPSR                        | 344 | . | Q  | QRS.....QDSRMTYQERT.....E.RHE.....MQVL                                   |
| cow NPSR                          | 343 | . | Q  | QRS.....QDSRMTYQERT.....E.KHE.....MQVL                                   |
| dog NPSR                          | 347 | . | Q  | QTS.....RGSRKTFRERT.....Q.RHE.....MQVL                                   |
| giant panda NPSR                  | 347 | . | RTS  | RTS.....RDSRMTFRERT.....Q.RHE.....MQVL                                   |
| elephant NPSR                     | 344 | . | RKS  | RKS.....RDSRMTQERT.....E.RHE.....MQVL                                    |
| rat NPSR                          | 345 | . | QRS  | QRS.....QDSRMTYRERS.....E.RHE.....MQIL                                   |
| mouse NPSR                        | 344 | . | QRS  | QRS.....QDSRMTYRERS.....E.RHE.....MQIL                                   |
| rabbit NPSR                       | 344 | . | RRS  | RRS.....QDSRMTCRERT.....E.RHE.....MQTL                                   |
| mouse lemur NPSR                  | 343 | . | RNSVYLLACDASSVHWAVLTSKGEGCE.WRKKGAKITG..FQSD   |  |
| bush baby NPSR                    | 341 | . | NSSAYLLAD.DASVLTWVLTSGKEGCE.RKE..AKITG..FQND   |  |
| guinea pig NPSR                   | 350 | . | QKS  | QKS.....QVSRMTCRERS.....E.RHE.....LQFL                                   |
| opossum NPSR                      | 345 | . | RRN  | RRN.....AGGTQDKT.....E.RHE.....MRMR                                      |
| megabat NPSR                      | 343 | . | NSSAYLLAS.AVIHWALVLGSGGK.....AKITG..FQDD       |  |
| dolphin NPSR*                     | 339 | . | NSSAYLLASDVSVHWALVLTSRKEGCE.WWG                |  |
| chicken NPSR                      | 345 | . | RRT  | RRT.....RRLEGTFRDRS.....DGGQE.....MQVL                                   |
| zebra finch NPSR                  | 345 | . | RRT  | RRT.....QRLGGTFRERS.....DGGQQ.....MQVL                                   |
| lizard NPSR*                      | 353 | . | RRR  | RRR.....SGNLGTFRERT.....E.GQE.....MQVL                                   |
| frog NPSR                         | 346 | . | RNS  | RNS.....GKLGGTIRDKT.....E.GIE.....MQVV                                   |
| lancelet NPSR-like <sup>++</sup>  | 342 | . | RRA  | RRA.....LKHFKMLKAHF.....LKNHF.....VEEG                                   |
| acorn worm NPSR-like <sup>+</sup> | 339 | . | MVTVVREVLSLMTNIHNRN                            | MVTVVREVLSLMTNIHNRN.....GYSNF.....RNIV                                   |
| water flea CCAPR <sup>+</sup>     | 347 | . | ETLTAYNGIWNKTS                                 | ETLTAYNGIWNKTS.....IFPFHFQNGHTI...                                       |
| mosquito CCAPR                    | 371 | . | SPDGGSQGAGMRNGTVLNGNARLQNHNSSDSMRTLTTSLTISQRSC | SPDGGSQGAGMRNGTVLNGNARLQNHNSSDSMRTLTTSLTISQRSC.....IRP.SRVVIVERPKAAL..   |
| fruitfly CCAPR                    | 431 | . | SYRNNSQQN..RCHTV...GRRL..HNSCDSMRLLTTSLTVSRRST | SYRNNSQQN..RCHTV...GRRL..HNSCDSMRLLTTSLTVSRRST.....NKANARVIIICERPINKVITV |
| marine worm CCAPR <sup>++</sup>   | 341 | . | ETLSVAIRKLKLEYKKSCCTSSSHLLFQKAPV               | ETLSVAIRKLKLEYKKSCCTSSSHLLFQKAPV.....LRVAFT                              |
| limpet CCAPR <sup>++</sup>        | 350 | . | SRLSSCDYSMTQDYEVSSVTFTIRLTRLECT                | SRLSSCDYSMTQDYEVSSVTFTIRLTRLECT.....                                     |



|                                   |     |    |           |
|-----------------------------------|-----|----|-----------|
| human NPSR                        | 369 | G  | VPSWALPR  |
| chimpanzee NPSR                   | 369 | G  | VPSWALPR  |
| gorilla NPSR                      | 386 | V  | PGEN.REA  |
| marmoset NPSR                     | 386 | V  | PGEN...R  |
| orangutan NPSR                    | 367 | S  | SKPEF...I |
| macaque NPSR                      | 366 | S  | SKPEF...I |
| horse NPSR                        | 366 | S  | SKPEF...I |
| cow NPSR                          | 365 | S  | SKPEF...M |
| dog NPSR                          | 369 | S  | SKPEF...I |
| giant panda NPSR                  | 369 | P  | PKPEF...I |
| elephant NPSR                     | 366 | S  | SKPEF...I |
| rat NPSR                          | 367 | S  | SKPEF...I |
| mouse NPSR                        | 366 | S  | SKPEF...I |
| rabbit NPSR                       | 366 | A  | AKPEF...L |
| mouse lemur NPSR                  | 384 | I  | IPGED...G |
| bush baby NPSR                    | 379 | I  | IPREN...R |
| guinea pig NPSR                   | 372 | S  | SKPEF...I |
| opossum NPSR                      | 365 | P  | PKPEF...I |
| megabat NPSR                      | 375 | V  | VPREN...R |
| dolphin NPSR*                     | 369 | .. | R...K     |
| chicken NPSR                      | 368 | S  | SKPEY...I |
| zebra finch NPSR                  | 368 | S  | SKPEC...I |
| lizard NPSR*                      | 375 | S  | SKPEY...I |
| frog NPSR                         | 368 | S  | SRPEY...L |
| lancelet NPSR-like <sup>++</sup>  | 365 | S  | SVFLC...L |
| acorn worm NPSR-like <sup>+</sup> | 367 | N  | NRAMY...I |
| water flea CCAPR <sup>+</sup>     | 373 | .. | LKK...D   |
| mosquito CCAPR                    | 433 | .. | AMSQ...V  |
| fruitfly CCAPR                    | 489 | P  | PAMSE...V |
| marine worm CCAPR <sup>++</sup>   | 380 | S  | SLLLV...L |
| limpet CCAPR <sup>++</sup>        | 383 | .. | ...S      |

Note: Secondary structure elements marked on top of the alignment correspond to that predicted for the human NPSR sequence. Transmembrane regions are named TM1 to TM7; extracellular and intracellular loops are named ECL1, 2, 3 and ICL1, 2, 3, respectively. The upright triangle symbol in blue corresponds to Type I divergence sites and star symbol in green corresponds to Type II divergence sites. Numbers on the left of the sequences correspond to the amino acid residue position for each sequence. Intron positions are marked in blue boxes. N-terminal region of the fruitfly CCAPR sequence has been trimmed to align with rest of the sequences. Sequences corrected manually at the N and C-termini are represented with \* and + at the end of their sequence names.