

Supplementary figure 4

A

```

hNRR1 (1) --DYSFGGCAGRDIPFPLIEEACELP---ECOEDAGNKVCSLQCNNHACCWGGDCSLNFNDPWKNCQTQSLOCWKYFSDGHCDSSQCNSAGCLFDGFDCQ-
mNRR1 (1) --DYSFTGCAGRDIPFPQIEEACELP---ECOVDAGNKVCNLQCNNHACCWGGDCSLNFNDPWKNCQTQSLOCWKYFSDGHCDSSQCNSAGCLFDGFDCQ-
hNRR2 (1) -----TAPFSTFPATCLSQ---YCADKARDGVCDEACNSHACQWDGGDCSLTMENPWANCSSPLPCWDYINN-QCDELONTVECLFDNFECQ-
mNRR2 (1) PPSFGGSHCELYTAPTSTFPATCQSQ---YCADKARDGICDEACNSHACQWDGGDCSLTMDPWANCTSTLRCWEYINN-QCDEQCN TAECLFDNFECQ-
hNRR3 (1) -----RCEAPAAAPEVSEEPKPCRA---ACQAKRGDQRCRECNTPGCGWDGGDCSLSVGDPWRQC-EALQCWRLFNNSRCDPACSSPACLYDNFDCYSA
mNRR3 (1) -----RCETPSAAPEVPEEPKPCRA---ACQAKRGDQNCRECNTPGCGWDGGDCSLNVDDPWWRQC-EALQCWRLFNNSRCDPACSSPACLYDNFDCYS
hNRR4 (1) ----LGGPFCFRCSCPHSSFGPKCQKPGAKGCEGRSGDGCADAGCSGPGGNWDGGDCSLGVDPWPKGCPSHSRCWLLFRDQCHPQCDSEECCLFDGYDCE-
mNRR4 (1) -----PGFQCTCFEIDSEFGPKCQRPGASGCEGRSGDGTCDAGCSGPGGNWDGGDCSLGVDPWPKGCPPHSCWLLFRDGRCHPQCDSEECCLFDGYDCE-

hNRR1 (95) -RAEGQCNELYDQYCKDHFS DGHC DQGCNSAECEWDGLDCAEHVPERLAAGTLV VVLMPEQLRNS SFHFLRELSRVLHTNVVFKRDAHGQOMIEPYYG
mNRR1 (95) -LTEGQCNELYDQYCKDHFS DGHC DQGCNSAECEWDGLDCAEHVPERLAAGTLV VVLLPPDQLRNS SFHFLRELSHVLHTNVVFKRDAQGQOMIEPYYG
hNRR2 (84) -GNSKTCCK--YDKYCADHFKNHCDQGCNSEECGWDGLDCAADQPENLAEGTLV I VVLMPEQLLQDARS FLRALGTLTLLHTNLRIRKQDSQGELM VYPYFG
mNRR2 (96) -RNSKTCCK--YDKYCADHFKNHCDQGCNSEECGWDGLDCAADQPENLAEGTLV I VVLLPEQLLQDSRS FLRALGTLTLLHTNLRIRKQDSQGALM VYPYFG
hNRR3 (91) GGRERTCNFVYEKYCADHFADGRC DQGCNTEECGWDGLDCASEVPALLARCVLVT VLLPPEELR S SADFLQRLSAILRSLRFRLDAGHGCAMVFPYHR
mNRR3 (91) GGRDRTCNFVYEKYCADHFADGRC DQGCNTEECGWDGLDCASEVPALLARCVLVT VLLPPEELR S SADFLQRLSAILRSLRFRLDARGCAMVFPYHR
hNRR4 (96) --TTPACTFAYDQYCHDFHNGHC EKGKNTAECEGWDGDCRPE DGDPEWGPSLAL LVVLSPPALDQLFALARVLSLTLRVGLVWRKDRDGRDMVYPYPG
mNRR4 (93) --IPLTCIFAYDQYCRDFHNGHC EKGKNTAECEGWDGDCRPE DGESEGRPSLAL LVVLRPPALDQLLALARVLSLTLRVGLVWRKDEGRNMVFPYPG

hNRR1 (194) REEELRKHPIKRAAEGWAAPDALLGQVKASLLPGGSEGRRRRELDPM D V RGSIVYLEIDNRQCVQA--SSQCFQSATDVA AFLGALASLGSINI FYKIE
mNRR1 (194) HEEELRKHPIKRSTV GWAT-----S--SLLPGTS--GGRQRRELDPM DIRGSIVYLEIDNRQCVQS--SSQCFQSATDVA AFLGALASLGSINI FYKIE
hNRR2 (181) E-----KSAAMKKQR-----MTRRSLPGEQEQE-----VAGSKVLEIDNRQCVQD--SDHCFKNTDAAAALLASHAIQGTLSYFLVSV
mNRR2 (193) E-----KSAAMKKQK-----MTRRSLPEEQEQEQE---VIGSKVLEIDNRQCVQD--SDQCFKNTDAAAALLASHAIQGTLSYFLVSV
hNRR3 (191) P-----SPGSE--PRRRELAP--EVIGSVVMLEIDNRLCLQSPENDHCFPDAQSAADYLGATSAVERLDFEYELR
mNRR3 (191) P-----SPGSE--SRVRELGP--EVIGSVVMLEIDNRLCLQSAENDHCFPDAQSAADYLGATSAVERLDFEYELR
hNRR4 (194) ARAEEKLGGTRDPTYQER-----AAPQTQPLGKETDSL S---AGFVVVMGVDL SRCGPDHPASRCPWD PGLLLRFLAAMA AVGALEPLL EGP
mNRR4 (191) TRAKEELSGARDSSSWER-----QAPPTQPLGKETESL G---AGFVVVMGVDL SRCGPEHPASRCPWD SGLLLRFLAAMA AVGALEPLL EGP

hNRR1 (292) AVQSEITVPEPPEAQ-
mNRR1 (282) AVKSEIVPEPPEL---
hNRR2 (253) VSESLTPERTQ----
mNRR2 (267) FSELSPRNAQ----
hNRR3 (258) DVRGEPLPEPES--
mNRR3 (258) DVRGEPLPEEQSV-
hNRR4 (278) LLAVHPHAGTAPP--
mNRR4 (275) LLAAHPQAGTRFSAN

```

B

	mNRR2	mNRR3	mNRR4	hNRR1	hNRR2	hNRR3	hNRR4
mNRR1	46	48	33	90	44	45	33
mNRR2		44	31	45	88	44	32
mNRR3			38	43	44	94	35
mNRR4				33	30	35	83