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(54) Title: GPR 26 G-PROTEIN COUPLED RECEPTOR

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Query  1
MNSWDAGLAGLLVGTMGVSLLSNALVLLCLLHSADIRRQAPALFTLNLTCGNLLCTVVNM
60
           M   +A LAGLLV  + V+LLSNALVLLC  +SA++R +A  +  +NL+ G+LL   ++M
Sbjct  1   MGPGEALLAGLLVMVLAVALLSNALVLLCCAYSAELRTRASGVLLVNLSLGHLLLAALDM  60

Query  61  PLTLAGVVAQRQPAGDRLCRLAAFLDTFLAANSMLSMAALSIDRWVAVVFPLSYRAKMRL  120
           P TL GV+  R P+    C++  FLDTFLA+N+ LS+AALS D+W+AV FPL Y  ++R
Sbjct  61  PFTLLGVMRGRTPSAPGACQVIGFLDTFLASNAALSVAALSADQWLAVGFPLRYAGRLRP  120

Query  121 RDAALMVAYTWLHALTFPAAALALSWLGFHQLYASCTLCSRRPDERLRFAVFTGAFHALS  180
           R A L++   W  +L F  AAL  SWLG+   +ASC+L      ER RFA FT   HA+
Sbjct  121 RYAGLLLGCAWGQSLAFSGAALGCSWLGYSSAFASCSLRLPPEPERPRFAAFTATLHAVG  180

Query  181 FLLSFVVLCCTYLKVLKVARFHCKRIDVITMQTLVLLVDLHPSVRERCLEEQKRRRQRAT  240
           F+L   VLC T L+V +VAR HC+R+D +TM+ L LL DLHPSVR+RCL +QKRRR RAT
Sbjct  181 FVLPLAVLCLTSLQVHRVARRHCQRMDTVTMKALALLADLHPSVRQRCLIQQKRRRHRAT  240

Query  241 KKISTFIGTFLVCFAPYVITRLVELFSTVPIGSHWGVLSKCLAYSKAASDPFVYSLLRHQ  300
           +KI   I TFL+CFAPYV+TRL EL   V + + WG+LSKCL YSKA +DPF YSLLR
Sbjct  241 RKIGIAIATFLICFAPYVMTRLAELVPFVTVNAQWGILSKCLTYSKAVADPFTYSLLRRP  300

Query  301 YRKSCKEILNRLLHR----RSIHSSGL  323
           +R+    +++RLL R     S H S L
Sbjct  301 FRQVLAGMVHRLLKRTPRPASTHDSSL  327
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(57) Abstract: We disclose GPR26 G-protein coupled receptor (GPCR) polypeptides comprising the amino acid sequence shown in SEQ ID NO. 3 or SEQ ID NO: 5, and homologues, variants and derivatives thereof. Nucleic acids capable of encoding GPR26 polypeptide are also disclosed. The GPR26 receptor is useful in the diagnosis and therapy of mental illness.

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