

Product datasheet for **RG204677**

GPR34 (NM_005300) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR34 (NM_005300) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR34
Synonyms:	LYPSR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204677 representing NM_005300 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAAGTCATACCATAACAATGACGACAACCTCAGTCAGCAGCTGGCCTTACTCCTCCCACAGAATGC
GCTTTATAACCAATCATAGCGACCAACCGCCACAAAACCTCTCAGCAACACCAAATGTTACTACCTGTCC
CATGGATGAAAAATTGCTATCTACTGTGTTAACCCACATCTACTCTGTTATTTTCATCGTGGGACTGTT
GGGAACATAATCGCCCTCTATGTATTTCTGGGTATTCACCGTAAAAGAAATTCATTCAAATTTATCTAC
TTAACGTAGCCATTGCAGACCTCTACTCATCTTCTGCCTCCCTTCCGAATAATGTATCATATTAACCA
AAACAAGTGGACACTAGGTGTGATTCTGTGCAAGGTTGTGGGAACACTGTTTTATGAACATGTACATT
AGCATTATTTTGCTTGGATTTCATCAGTTTGGATCGCTATATAAAAATTAATCGGTCTATACAGCAACGGA
AGGCAATAACAACCAACAAAGTATTTATGTCTGTTGTATAGTATGGATGCTTGGTGGATTCTCT
AACTATGATTATTTTAACTTAAGAAAGGAGGGCATAATCCACAATGTGTTCCATTACAGAGATAAG
CATAACGCAAAAGGAGAAGCCATTTTAACTTCATTCTTGGTAATGTTCTGGCTAATTTTCTTACTAA
TAATCCTTTCATATATTAAGATTGGGAAGAATCTATTGAGGATTTCTAAAAGGAGGTCAAATTTCTTAA
TTCTGGTAAATATGCCACTACAGCTCGTAACTCCTTTATTGTACTTATCATTTTTACTATATGTTTTGTT
CCCTATCATGCCCTTCGATTTCATCTACATTTCTCACAGCTAAATGTATCATCTTGGTACTGGAAGAAA
TTGTTACAAAACCAATGAGATCATGCTGGTCTCTCATCTTTCAATAGTTGCTTAGATCCAGTCATGTA
TTTCTGATGTCCAGTAACATTCGCAAAAATAATGTGCCAACTTCTTTTTAGACGATTTCAAGGTGAACCA
AGTAGGAGTGAAAGCACTTCAGAATTTAAACCAGGATACTCCCTGCATGATACATCTGTGCCAGTGAAAA
TACAGTCTAGTTCTAAAAGTACT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204677 representing NM_005300
 Red=Cloning site Green=Tags(s)

MRSHTITMTTTSVSSWPYSSHRMRFITNHSQPPQNFSA TPNVTTCPMDEKLLSTVLTTSSYVIFIVGLV
 GNIIALYVFLGIHRKRNSIQIYLLNVAIADLLIFCLPFRIMYHINQNKWTLGVILCKVVGTLFYMNMYI
 SIILLGFISLDRIYIKINRSIQQRKAITTKQSIYVCCIVWMLALGGFLTMIILTLKKGGHNSTMCFHYRDK
 HNAKGEAIFNFILVVMFWLIFLLIILSYIKIGKNLLRISKRRSKFPNSGKYATTARN SFIVLIIFTICFV
 PYHAFRFIYISSQLNVSSCYWKEIVHKTN EIMLVLSSFN SCLDPV MYFLMSSNIRKIMCQLLFRRFQGE P
 SRSESTSEFKPGYSLHDT SVAVKIQSSSKST

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005300

ORF Size: 1143 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_005300.4](#)

RefSeq Size: 1845 bp

RefSeq ORF: 1146 bp

Locus ID: 2857

UniProt ID: [Q9UPC5](#)

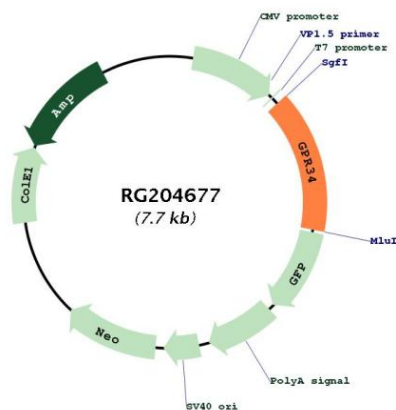
Cytogenetics: Xp11.4

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: G protein-coupled receptors (GPCRs), such as GPR34, are integral membrane proteins containing 7 putative transmembrane domains (TMs). These proteins mediate signals to the interior of the cell via activation of heterotrimeric G proteins that in turn activate various effector proteins, ultimately resulting in a physiologic response.[supplied by OMIM, Apr 2006]

Product images:



Circular map for RG204677