

Product datasheet for **RG208054**

GPR37 (NM_005302) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR37 (NM_005302) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR37
Synonyms:	EDNRBL; hET(B)R-LP; PAELR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208054 representing NM_005302
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGAGCCCCGGGCGCCTTCTCGCCGCATGTCGCGGCTACTGCTTCTGCTACTGCTCAAGGTGTCTG
 CCTCTTCTGCCCTCGGGTTCGCCCTGCGTCCAGAAACGAAACTTGTCTGGGGGAGAGCTGTGCACCTAC
 AGTGATCCAGCGCCGCGCAGGGACGCCTGGGGACCGGAAATCTGCAAGAGACGTTCTGCGAGCCGA
 GCACCCAGGGAGGAGCAGGGGGCAGCGTTTCTTGCGGACCTCTGGGACCTGCCGGCGGCCCGGGCC
 GTGACCCGGTGCAGGCAGAGGGGCGGAGGCGTCCGACCGGACCCCGGGACCTCAACCCAGGCCACC
 TGGCCCTGGAGGTGAAAGGTGCTCGGGTTCAGGACCTTCTGAAACTTTGGGGAGAGGAAACCCACG
 GCCCTCCAGCTTCTCCTCAGATCTCAGAGGAGGAAGAGAAGGGTCCCAGAGGCGCTGGCATTTCGGGC
 GTAGCCAGGAGCAGAGTGTGAAGACAGTCCCCGGAGCCAGCGATCTTTTTACTGGCCAAGGAGACCGG
 GAAACTCCAGGGTCCCACCACAAGCCCTGTCCAAGACGGCCAATGGACTGGCGGGGCAGAAAGGTGG
 ACAATTGCACTCCCGGGCGGGCGCTGGCCAGAATGGATCCTTGGGTGAAGGAATCCATGAGCCTGGGG
 GTCCCCGCGGGGAAACAGCACGAACCGCGTGTGAGACTGAAGAACCCCTTCTACCCGCTGACCCAGGA
 GTCCTATGGAGCCTACGCGGTATGTGTCTGTCGTGGTATCTTCGGGACCGGCATCATTGGCAACCTG
 GCGGTGATGTGCATCGTGTGCCACAACACTACATGCGGAGCATCTCAACTCCCTCTTGGCCAACCTGG
 CCTTCTGGGACTTCTCATCATCTTCTTCTGCCTCCGCTGGTCACTTCCACGAGCTGACCAAGAAGTG
 GCTGCTGGAGGACTTCTCCTGCAAGATCGTGCCCTATATAGAGGTCGCTTCTCTGGGAGTACCACCTTC
 ACCTTATGTGCTCTGTGCATAGACCGCTCCGTCGTCACCAACGTACAGATGTACTACGAAATGATCG
 AAAACTGTTCTCAACAACACTGCCAACTTGCTGTTATATGGGTGGGAGCTCTATTGTTAGCACTCCAGA
 AGTTGTTCTCCGCCAGCTGAGCAAGGAGGATTTGGGGTTTGTGGCCGAGCTCCGGCAGAAAGTGCATT
 ATTAAGATCTCTCCTGATTTACCAGACACCATCTATGTTCTAGCCCTCACCTACGACAGTGCAGACTGT
 GGTGGTATTTGGCTGTTACTTTTGTGGCCACGCTTTTACCATCACCTGCTCTCTAGTGACTGCGAG
 GAAATCCGCAAAGCAGAGAAAGCCTGTACCCGAGGGAATAAACGGCAGATTCAACTAGAGAGTCAGATG
 AACTGTACAGTAGTGGCACTGACCATTTTATATGGATTTGCATTATTCTGAAAATATCTGCAACATTG
 TTAGCTACATGGCTACAGGGTTTACAGCAGACAATGGACCTCCTAATATCATCAGCCAGTTCCT
 TTTGTTCTTAAGTCTGTGTACCCAGTCTCCTTTTCTGTCTGCAAAACCTTCAGTCGGGCCTTC
 ATGGAGTGTGCTGTGTTGCTGTGAGGAATGCATTGAGAAGTCTCAACGGTGACCAGTGTGACAAATG
 ACAACGAGTACACCACGGAACCTGAACTCTCGCCTTTCAGTACCATACCGCGTGAATGTCCACTTTTGC
 TCTGTCCGGAACCTATTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208054 representing NM_005302
 Red=Cloning site Green=Tags(s)

MRAPGALLARMSRLLLLLLLKVSASSALGVAPASRNETCLGESCAPTVIQRGRDAWPGNSARDVLRAR
 APREEQGAFLAGPSWDLPAAPGRDPAAGRGAEASAAGPPGPTRPPGPWRWKARGQEPSETLGRGNPT
 ALQLFLQISEEEEKGPARGAGISGRSQEQSVKTVPGASDLFYWPRRAGKLQGSHHKPLSKTANGLAGHEGW
 TIALPGRALAQNGSLGEGIHPPGPRRGNSTNRRVRLKNPFYPLTQESYGAYAVMCLSVVIFGTGIIGNL
 AVMCIVCHNYMRSISNSLLANLAFWDFLIIFCLPLVIFHELTKKWLEDFSKIVPYIEVASLGVTTF
 TLCALCIDRFRAATNVQMYEMIENCSSTAKLAVIIVGALLLALPEVLRQLSKEDLGFSGRAPAERCI
 IKISPDLPTIYVLALTYDSARLWYFGCYFCLPTLFTITCSLVTARKIRKAEKACTRGNKRQIQLESQM
 NCTVVALTILYGFICIIPENICNIVTAYMATGVSQQTMDLLNIISQFLLFFKSCVTPVLLFCLCKPFSRAF
 MECCCCCEECIQKSSTVTSDDNDNEYTTELELSPFSTIRREMSTFASVGTGHC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_005302

ORF Size: 1839 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

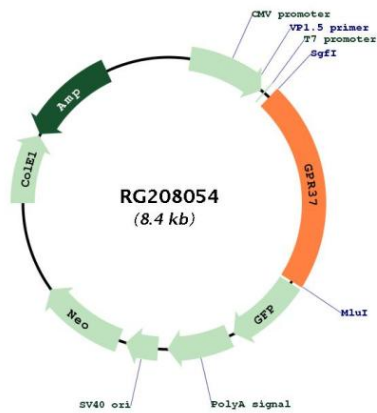
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_005302.2](#), [NP_005293.1](#)

RefSeq Size: 3815 bp
RefSeq ORF: 1842 bp
Locus ID: 2861
UniProt ID: [O15354](#)
Cytogenetics: 7q31.33
Protein Families: Druggable Genome, GPCR, Transmembrane
Protein Pathways: Parkinson's disease
Gene Summary: This gene is a member of the G protein-coupled receptor family. The encoded protein contains seven transmembrane domains and is found in cell and endoplasmic reticulum membranes. G protein-coupled receptors are involved in translating outside signals into G protein mediated intracellular effects. This gene product interacts with Parkin and is involved in juvenile Parkinson disease. [provided by RefSeq, Oct 2012]

Product images:



Circular map for RG208054