

Product datasheet for **SC117166**

GPR37L1 (NM_004767) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GPR37L1 (NM_004767) Human Untagged Clone
Tag: Tag Free
Symbol: GPR37L1
Synonyms: ET(B)R-LP-2; ETBR-LP-2; ETBRLP2
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004767, RT-PCR generated
CTCATCCAGCCATGCGGTGGCTGTGGCCCTGGCTGTCTCTCTTGCTGTGATTTTGGCTG
TGGGGCTAAGCAGGGTCTCTGGGGGTGCCCCCTGCACCTGGGCAGGCACAGAGCCGAGA
CCCAGGAGCAGCAGAGCCGATCCAAGAGGGGCACCGAGGATGAGGAGGCCAAGGGCGTGC
AGCAGTATGTGCCTGAGGAGTGGGCGGAGTACCCCGGCCATTACCCCTGCTGGCTGC
AGCCAACCAAGCCCTTGGTGGCCACCAGCCCTAACCCGACAAGGATGGGGGCACCCAG
ACAGTGGGCAGGAAGTACAGGGCAATCTGACAGGGGCACCGGGCAGAGGCTACAGATCC
AGAACCCCTGTATCCGGTGACCGAGAGCTCCTACAGTGCCTATGCCATCATGCTTCTGG
CGCTGGTGGTGTGGCGGTGGGCATTGTGGCAACCTGTCGGTGCATGTGCATCGTGTGGC
ACAGCTACTACCTGAAGAGCGCCTGGAACCTCCATCCTTGCCAGCCTGGCCCTCTGGGATT
TTCTGGTCTCTTTTTCTGCCTCCCTATTGTCATCTTCAACGAGATCACCAAGCAGAGGC
TACTGGGTGACGTTTCTTGTGCGTCCCTGCCCTTTCATGGAGGTCTCCTCTCTGGGAGTCA
CGACTTTCAGCCTCTGTGCCCTGGGCATTGACCGCTTCCAGTGGCCACCAGCACCCCTGC
CCAAGGTGAGGCCATCGAGCGGTGCCAATCCATCCTGGCCAAGTTGGCTGTCATCTGGG
TGGGCTCCATGACGCTGGCTGTGCCTGAGCTCCTGCTGTGGCAGCTGGCAGAGGAGCCTG
CCCCACCATGGGCACCCCTGGACTCATGCATCATGAAACCCCTCAGCCAGCCTGCCCGAGT
CCCTGTATCACTGGTGATGACCTACCAGAACGCCCGCATGTGGTGGTACTTTGGCTGCT
ACTTCTGCCTGCCATCCTCTTACAGTCACCTGCCAGCTGGTGCATGGCGGGTGGCAG
GCCCTCCAGGGAGGAAGTCAGAGTGCAGGGCCAGCAAGCAGCAGTGTGAGAGCCAGC
TCAACAGCACCGTGGTGGCCCTGACCGTGGTCTACGCCTTCTGCACCCTCCAGAGAAGC
TCTGCAACATCGTGGTGGCTACCTCTCCACCGAGCTGACCCGCCAGACCCTGGACCTCC
TGGGCCTCATCAACAGTTCTCCACCTTCTTCAAGGGCGCCATCACCCAGTGTGCTCC
TTTGCATCTGCAGGCCGCTGGGCCAGGCCTTCTGGACTGCTGCTGCTGCTGCTGCTGTG
AGGAGTGCGGCGGGCTTCGGAGGCCTCTGCTGCCAATGGGTGGGACAACAAGCTCAAGA
CCGAGGTGCTCTTCCATCTACTTCCACAAGCCAGGGAGTACCCCACTCCTGCCCC
TGGGCACACCTTGTGAGGCCCCAGTAGGGGTGGGGAGGG



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004767 unedited GCAACTGTTNNGTTAACNATTTCTATAGGCGGCCCGCCAGTGTGATGGATATCTGCAGAA TTCGGCTTCTCATCCAGCCATGCGGTGGCTGTGGCCCCTGGCTGTCTCTTTGCTGTGAT TTTGGCTGTGGGGCTAAGCAGGGTCTCTGGGGGTGCCCCCTGCACCTGGGCAGGCACAG AGCCGAGACCCAGGAGCAGCAGAGCCGATCCAAGAGGGGCACCGAGGATGAGGAGGCCAA GGGCGTGCAGCAGTATGTGCCTGAGGAGTGGGCGGAGTACCCCGGCCATTACCCTGC TGGCTGCAGCCAACCAAGCCCTTGGTGGCCACCAGCCCTAACCCCGACAAGGATGGGG CACCCAGACAGTGGGCAGGAAGTGGGGCAATCTGACAGGGGCACCGGCAGAGGCT ACAGATCCAGAACCCCTGTATCCGGTGACCGAGAGCTCCTACAGTGCCTATGCCATCAT GCTTCTGGCGCTGGTGGTGTTCGCGTGGGCATTGTGGGCAACCTGTCGGTCATGTGCAT CGTGTGGCACAGCTACTACCTGAAGAGCGCCTGGAACCTCATCCTTGCCAGCCTGGCCCT CTGGGATTTTCTGGTCTCTTTTTCTGCCTCCCTATTGTCATCTTCAACGAGATCACCAA GCAGAGGCTACTGGGTGACGTTTCTTGTGCTGCCGTGCCCTTCATGGAGGTCTCCTCTCT GGGAGTACGACTTTCAGCCTCTGTGCCCTGNGCATTGACCGCTTNCACGTGGCCACCAG CACCTGCCCAAGGTGAGGCCATCGAGCGGTGCCAATCCATCCTGNNNCAAGTTGGCTG TATCCTGGGGTGGCTCATGACGCTGGCTGTGCCTGAGCTCCTGTGTGGCAGCTGGCAC AGNAGCCTGCCNCCACATGGGCACCCTGN
Restriction Sites:	Please inquire
ACCN:	NM_004767
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
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:	<ol style="list-style-type: none"> 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_004767.2 , NP_004758.2
RefSeq Size:	2516 bp
RefSeq ORF:	1446 bp

Locus ID:	9283
UniProt ID:	O60883
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	<p>G-protein coupled receptor (PubMed:27072655). Has been shown to bind the neuroprotective and glioprotective factor prosaposin (PSAP), leading to endocytosis followed by an ERK phosphorylation cascade (PubMed:23690594). However, other studies have shown that prosaposin does not increase activity (PubMed:27072655, PubMed:28688853). It has been suggested that GPR37L1 is a constitutively active receptor which signals through the guanine nucleotide-binding protein G(s) subunit alpha (PubMed:27072655). Participates in the regulation of postnatal cerebellar development by modulating the Shh pathway (By similarity). Regulates baseline blood pressure in females and protects against cardiovascular stress in males (By similarity). Mediates inhibition of astrocyte glutamate transporters and reduction in neuronal N-methyl-D-aspartate receptor activity (By similarity).[UniProtKB/Swiss-Prot Function]</p>