

Product datasheet for **RC208132**

GPR37L1 (NM_004767) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR37L1 (NM_004767) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR37L1
Synonyms:	ET(B)R-LP-2; ETBR-LP-2; ETBRLP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208132 representing NM_004767
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGTGGCTGTGGCCCTGGCTGTCTCTCTTGTGCTGATTTTGGCTGTGGGGCTAAGCAGGGTCTCTG
 GGGGTGCCCCCTGCACCTGGGCAGGCACAGAGCCGAGACCCAGGAGCAGCAGAGCCGATCCAAGAGGGG
 CACCGAGGATGAGGAGGCCAAGGGCGTGCAGCAGTATGTGCTGAGGAGTGGGCGGAGTACCCCCGGCC
 ATTCACCTGCTGGCTGCAGCCAACCAAGCCCTTGGTGGCCACCAGCCCTAACCCCGGCAAGGATGGGG
 GCACCCAGACAGTGGGCAGGAAGTGGGGCAATCTGACAGGAGCACCAGGGCAGAGGTACAGATCCA
 GAACCCCTGTATCCGGTGACCGAGAGCTCTACAGTGCCTATGCCATCATGCTTCTGGCGTGGTGGT
 TTTGGGTGGGCACTGTGGCAACCTGTCGGTCATGTGCATCGTGGCAGCTACTACCTGAAGAGT
 CCTGGAACCTCCATCCTTCCAGCCTGGCCCTCTGGGATTTCTGGTCTCTTTTTCTGCCTCCCTATTGT
 CATCTTCAACGAGATACCAAGCAGAGGCTACTGGGTGACGTTTCTTGTGTCGGTGGCCCTTCATGGAG
 GTCTCCTCTCTGGGAGTACGACTTTCAGCCTCTGTGCCCTGGGATTGACCGCTTCCACGTGGCCACCA
 GCACCTGCCCAAGGTGAGGCCATCGAGCGGTGCCAATCCATCCTGGCCAAGTTGGCTGTCTGGGT
 GGGCTCCATGACGCTGGCTGTGCCTGAGCTCCTGCTGTGGCAGCTGGCACAGGAGCTGCCCCACCATG
 GGCACCTGGACTCATGCATCATGAAACCTCAGCCAGCTGCCCGAGTCCCTGTATTACTGGTGTGATGA
 CCTACCAGAACGCCGCATGTGGTGGTACTTTGGCTGCTACTTCTGCCTGCCATCCTCTTACAGTAC
 CTGCCAGTGGTACATGGCGGGTGCAGGCCCTCCAGGGAGGAAGTCAGAGTGCAGGGCCAGCAAGCAC
 GAGCAGTGTGAGAGCCAGCTCAACAGCACCGTGGTGGCCCTGACCGTGGTCTACGCCTTCTGCACCTCC
 CAGAGAAGCTCTGCAACATCGTGGTGGCCTACCTCTCCACCGAGTACCCGCGCAGACCTGGACCTCCT
 GGGCCTCATCAACGAGTTCACCTTCTTCAAGGGCGCCATCACCCAGTGTGCTCCTTTGCATCTGC
 AGGCCGCTGGGCCAGGCCCTTCTGGACTGCTGCTGCTGCTGCTGCTGAGGAGTGCAGGGGGCTTCGG
 AGGCCTCTGCTGCCAATGGGTCGGACAACAAGCTCAAGACCGAGGTGTCCTCTTCCATCTACTTCCACAA
 GCCCAGGAGTACCCCCACTCTGCCCTGGGCACACCTTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208132 representing NM_004767
 Red=Cloning site Green=Tags(s)

MRWLWPLAVSLAVILAVGLSRVSGGAPLHLGRHRAETQEQQSRSKRGTEDEEAKGVQYVPEEWAIEYPRP
 IHPAGLQPTKPLVATSPNPGKGGTPDSGQELRGNLTGAPGQRLQIQNPLYPVTESSYSAYAIMLLALVV
 FAVGIVGNLSVMCIVWHSYLLKSAWNSILASLALWDFLVLFCLPIVIFNEITKQRLLDVSCRAVPFME
 VSSLGVTTFLCALGIDRFHVATSTLPKVRPIERCQSILAKLAVIWWGSMTLAVPELLLWQLAQEPAPTM
 GTLDSCIMKPSASLPESLYSLVMTYQNARMWWYFGCYFCLPILFTVTCQLVTRVVRGPPGRKSECRASKH
 EQCESQLNSTVVGLTVVYAFCTLPENVCNIVVAYLSTELTRQTLDLLGLINQFSTFFKGAITPVLLLCIC
 RPLGQAFLDCCCCCCECGGASEASAANGSDNKLKTEVSSSIYFHKPRESPLLLPLGTPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8120_g10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_004767

ORF Size: 1443 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](#)

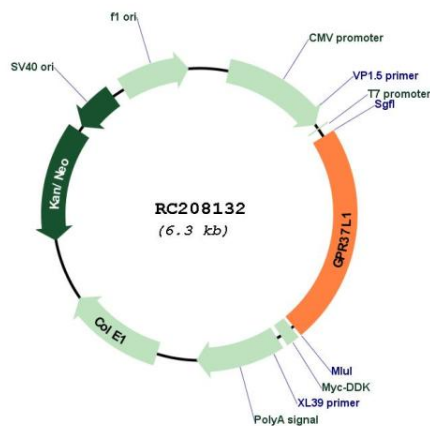
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_004767.5
RefSeq Size:	2459 bp
RefSeq ORF:	1446 bp
Locus ID:	9283
UniProt ID:	O60883
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
MW:	53.2 kDa
Gene Summary:	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]

Product images:



Circular map for RC208132