

Product datasheet for **SC316599**

GPRASP1 (NM_001099411) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPRASP1 (NM_001099411) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPRASP1
Synonyms:	GASP; GASP-1; GASP1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001099411, the custom clone sequence may differ by one or more nucleotides

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ATGACTGGGGCAGAGATTGAGTCTGGTGCCAGGTCAAGCCTGAAAAGAAGCCTGGGGAA
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AGGACAAGGTCTGAGGAAGAAGAGGTCTTGGTCCCTGGTTTTGGTCTGGAGAACAAGTT
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GGGTCCTGGTTTTGGGCTGAAAACCAGACCTATATGGATTGTAGGGCTGAACTAGCTGT
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 AATATTGAGCCGCTTATTCTGCATTCACAAAAGTTGAGAAAATTTGCTAAGGAACTGCAA
 GGCAAAACAGACAATCAAATGACCCTGAAGGGGACCAAGAAAAT

Restriction Sites:

Please inquire

ACCN:

NM_001099411

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001099411.1](#), [NP_001092881.1](#)

RefSeq Size: 5826 bp

RefSeq ORF: 4188 bp

Locus ID: 9737

UniProt ID: [Q5JY77](#)

Cytogenetics: Xq22.1

Protein Families: Druggable Genome

Gene Summary:

This gene encodes a member of the GPRASP (G protein-coupled receptor associated sorting protein) family. The protein may modulate lysosomal sorting and functional down-regulation of a variety of G-protein coupled receptors. It targets receptors for degradation in lysosomes. The receptors interacting with this sorting protein include D2 dopamine receptor (DRD2), delta opioid receptor (OPRD1), beta-2 adrenergic receptor (ADRB2), D4 dopamine receptor (DRD4) and cannabinoid 1 receptor (CB1R). Multiple alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, May 2010]

Transcript Variant: This variant (3) lacks two exons in the 5' UTR and encodes the same protein, as compared to variant 1.