OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC120460

GPRASP2 (NM_138437) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPRASP2 (NM_138437) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPRASP2
Synonyms:	DFNX7; GASP2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC120460 sequence for NM_138437 edited (data generated by NextGen Sequencing)

ATGACTGGGGCAGAGATTGAGCCTAGTGCCCAGGCCAAGCCTGAAAAGAAGGCTGGGGAA
GAGGTTATCGCTGGGCCTGAGAGAGAGAATGATGTCCCTCTGGTGGTCAGACCCAAGGTT
AGGACCCAGGCAACTACTGGGGCAAGGCCCAAAACTGAGACCAAGTCTGTGCCTGCGGCA
AGGCCCAAAACTGAGGCCCAAGCAATGTCTGGGGCAAGGCCCAAAACTGAGGTCCAAGTA
ATGGGTGGTGCAAGACCCAAAACGGAGGCTCAAGGAATCACAGGGGCCAGGCCCAAAACC
GATGCCAGGGCAGTAGGTGGCGCTCGTTCTAAAACTGATGCCAAGGCAATCCCTGGAGCA
AGGCCCAAGGATGAGGCCCAGGCATGGGCCCAGAGTGAATTTGGGACTGAAGCAGTGTCA
CAGGCAGAAGGAGTGTCCCAGACTAATGCCGTTGCTTGGCCACTGGCCACTGCTGAGTCT
GGATCAGTTACTAAATCTAAGGGCCTGTCTATGGATAGAGAACTAGTCAATGTGGATGCT
GAAACCTTTCCTGGCACCCAGGGTCAGAAAGGAATCCAGCCCTGGTTTGGACCAGGGGAG
GAGACTAATATGGGGTCTTGGTGCTATTCCAGGCCCAGGGCCAGAGAGGAGGCCTCTAAT
GAGTCTGGGTTCTGGTCAGCAGATGAGACCTCTACAGCGTCTTCTTTCTGGACTGGAGAA
GAGACAAGTGTCAGATCATGGCCCAGGGAAGAGTCCAATACCAGGTCCAGGCACAGGGCT
AAACATCAGACTAATCCCAGGTCCAGGCCCAGATCCAAGCAAGAAGCCTATGTTGATTCC
TGGTCTGGATCTGAGGATGAGGCCAGCAACCCATTCTCCTTCTGGGTTGGAGAAAATACC
AATAACTTGTTCAGGCCCAGAGTCAGGGAGGAGGCAAATATCAGGTCCAAGCTCAGGACA
AATAGAGAAGATTGTTTTGAATCTGAGTCTGAAGATGAGTTCTATAAGCAGTCCTGGGTT
TTGCCTGGAGAAGAGGCCAATAGTAGATTCAGGCACAGAGACAAAGAAGATCCTAATACT
GCCTTGAAACTCAGGGCCCAGAAAGATGTTGACAGTGATAGGGTCAAACAAGAACCCAGG
TTTGAGGAGGAAGTCATTATTGGGTCCTGGTTCTGGGCAGAAAAAGAGGCCAGTTTGGAG
GGTGGAGCTTCAGCAATCTGTGAATCTGAGCCAGGAACTGAGGAGGGGGCCATTGGCGGA
TCCGCGTACTGGGCTGAGGAAAAGTCCAGTTTGGGGGCTGTGGCCAGAGAAGAGGCCAAG
CCGGAGTCTGAAGAAGAGGCCATATTTGGGTCCTGGTTCTGGGACAGAGATGAGGCCTGC
TTTGACCTAAATCCCTGTCCTGTGTACAAGGTCAGTGATAGGTTCAGAGATGCAGCTGAG
GAGCTTAATGCATCCTCCAGGCCCCAAACCTGGGACGAGGTCACTGTTGAATTCAAACCT
GGTCTTTTTCATGGGGTTGGCTTCCGATCCACAAGCCCCTTTGGAATTCCCGAAGAGGCT
TCTGAAATGCTTGAGGCAAAGCCCAAGAACCTGGAACTTAGCCCAGAAGGAGAAGAGCAG
GAATCTTTGCTTCAGCCTGATCAGCCTAGTCCTGAGTTCACATTTCAGTATGATCCTTCC
TACCGGTCAGTCCGGGAAATTCGAGAGCATCTTAGGGCCAGGGAGAGTGCAGAGTCTGAG
AGTTGGTCCTGCAGCTGCATACAATGTGAGCTGAAAATTGGTTCTGAAGAGTTTGAAGAA
TTCCTTTTATTAATGGACAAAATTCGGGATCCTTTTATTCATGAAATATCTAAAATTGCA
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TCACTTATTGAAACCTTGCTTAATTATCCATCCTCTAGAGTTAGGACAAGTTTTTTGGAA
AATATGATTCACATGGCTCCACCTTATCCAAATCTAAACATGATTGAGACATTCATATGT
CAAGTGTGTGAGGAAACCCTTGCACATAGTGTGGATTCCCTTGAGCAGCTGACTGGAATA
AGGATGCTTAGACACCTCACTATGACTATTGACTATCACACACTGATTGCCAACTATATG
TCCGGGTTTCTCTCCTTATTAACCACAGCCAATGCGAGAACGAAGTTTCACGTTCTGAAA
ATGCTATTGAATTTGTCTGAAAATCCTGCTGTGGCAAAAAAACTATTCAGTGCCAAAGCT
CTTTCAATATTTGTGGGTCTCTTTAACATAGAAGAGACAAATGATAATATTCAAATTGTT
ATTAAAATGTTTCAGAATATCAGTAACATTATAAAAAGTGGAAAGATGTCCTTAATTGAT
GATGATTTCAGTCTTGAGCCGCTTATTTCTGCATTTCGTGAATTTGAGGAGTTAGCTAAG
CAACTACAAGCCCAAATAGACAACCAAAATGATCCTGAGGTGGGACAACAAAGTTAA

Clone variation with respect to NM_138437.5

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_138437 unedited
ATATTTATGTAATACGACTCACTATAGGGCGGCCCGCGAATTCGCACCANACGGGTCTGC
ACCCATCCAGGAAAATCTGTCTTCCTTTAACTTGGTTGTACCTGTTCTCACTCTATCTGT
ATTATTGAATTATTGACTGAGACTGTGTTTGGGAAGGAGGCTGAGTGACTACTGGACTGG
ATATTGACTCTAACTCTTATTCCCAAGCTTATATCCTTAATCACCTAAAGATCAGAGTGT
GAAGAAACAAACCTGTGACAGATCTGTGGTTGAGGTTTAGACTACGGGAGGAGTATATTA
CCTGACTTTCTTTGTAACTTGTACCATGACTGGGGCAGAGATTGAGCCTAGTGCCCAGGC
CAAGCCTGAAAAGAAGGCTGGGGAAGAGGTTATCGCTGGGCCTGAGAGAGAGAATGATGT
CCCTCTGGTGGTCAGACCCAAGGTTAGGACCCAGGCAACTACTGGGGCAAGGCCCAAAAC
TGAGACCAAGTCTGTGCCTGCGGCAAGGCCCAAAACTGAGGCCCAAGCAATGTCTGGNGC
AAGGCCCAAAACTGAGGTCCAAGTAATGGGTGGTGCAAGACCCAAAACGGANGCTCAAGG
AATCACAGGGGCCAGGCCCCAAACCGATGCNCAGGCAGTAGGTGGCGCTCGTTCTANAAC
TGATGCCAAGGCAATCCCTGGAGCATGGCCCCAAGATGAAGCCCCAGCATGGGCCCAGAG
TGAATTTGGGACTGAAGCAGTGTCAAAGGCAGAAGGAGTGTCCCAGACTAATGCCGTTGC
TTTGCCCCTGGCCACTGCTGAGTCTGGATCAGNTACTAAATCTAAGGGCCTGTCTATGAT
AGAGACTAGCCATGTGGATGCTGAAACCCTTCTGGCACCCAGGTCAGAATGGATCCAGCC
CTGTTNTGACAGGGNAGAGACTAATATGGGTCTTGTGGCTTTCCAGCCCCAGCCCAGAAG
AGCCTTAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_138437 unedited
ACATAGAACTTTATTGAAAACCACCTCAATAGAGAACCATATATTTAAACAACGAATAGC
AGGGTAGCTTACTTAGGTTGACACAGTTTCATTGAAAAACTTAATACTGAAAAATACCGC
AATCTGGACAGCAAGACAAATATCAACAAATGTGTTTTCAGTTTTGATATTCATTTGGCA
TCCACAAAATGATCCAGCTCAAAACAAGAGTTTGACAAAGTTAACATCAGCATTAAAAAA
TATAAGTTACAACAAAAAAACAGACTGTGAACACCAAAGCACTACTCAGGGCTCTTTGGG
AACATAAGGCTGATCAGCGGCAGGGGGTTAATCATATTAACTTTGTTGTCCCACCTCAGG
ATCATTTTGGTTGTCTATTTGGGCTTGTAGTTGCTTACCTAACTCCTCAAATTCACGAAA
TGCAAAAATAAGCGGCTCAAGACTGAAATCATCATCAATTAAGGACATCTTTCCACTTTT
TATAATGTTACTGATATTCTGAAACATTTTAATAACAATTGGAATATTATCATTTGTCTC
TTCTATGCCAAAGAGACCCACAAATATTGAAAGAGCTTTGGCACTGAATAGTTTTTTTGC
CACAGCAGGATTTTCAAACAAATTCAATAGCATTTTCAGAACGTGAAACTTCGTTCTCGC
ATTGGCTGTGGTTAAAAAGGAGAGAACCCCGGACATATAGTTGGCAATCANTGTGTGATA
CTCAATAGTCATAGTGAGGTGTCTAAACATCCTTATTCCAGTCAGCTGCTCAAGGGAATC
CACCTTTGTGCAAGGGTTTCCTCCACACACTTGACATATGAATGCCTCAATCATGTTTAA
ATTTGGATAGGCGGACCCTGGTTATCTATTTTTCCAAAAATTTGCCCAACTGTAAAGAAG
G

Restriction Sites: NotI-NotI

ACCN: NM_138437

Insert Size: 3500 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_138437.3, NP_612446.1
RefSeq Size:	3494 bp
RefSeq ORF:	2517 bp
Locus ID:	114928
UniProt ID:	Q96D09
Cytogenetics:	Xq22.1
Domains:	DUF634
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is a member of a family that regulates the activity of G protein-coupled receptors (GPCRs). The encoded protein has been shown to be capable of interacting with several GPCRs, including the M1 muscarinic acetylcholine receptor and the calcitonin receptor. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, May 2010] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 3. All five variants encode the same protein.