

Product datasheet for **RC230527**

GPRASP2 (NM_001184876) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPRASP2 (NM_001184876) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPRASP2
Synonyms:	DFNX7; GASP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230527 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTGGGGCAGAGATTGAGCCTAGTGCCAGGCCAAGCCTGAAAAGAAGGCTGGGAAGAGGTTATCG
 CTGGGCCTGAGAGAGAGAATGATGTCCTCTGGTGGTCAGACCCAAGGTTAGGACCCAGGCAACTACTGG
 GGCAAGGCCAAAACTGAGACCAAGTCTGTGCCTGCGGCAAGGCCAAAACTGAGGCCAAAGCAATGTCT
 GGGCAAGGCCAAAACTGAGGTCCAAGTAATGGGTGGTGAAGACCCAAAAACGGAGGCTCAAGGAATCA
 CAGGGGCCAGGCCAAAAACCGATGCCAGGGCAGTAGGTGGCGCTCGTTCTAAAACTGATGCCAAGGCAAT
 CCCTGGAGCAAGGCCAAGGATGAGGCCAGGCATGGGCCAGAGTGAATTTGGGACTGAAGCAGTGTCA
 CAGGCAGAAGGAGTGTCCAGACTAATGCCGTTGCTTGGCCACTGGCCACTGCTGAGTCTGGATCAGTTA
 CTAATCTAAGGGCCTGTCTATGGATAGAGAAGTCAATGTGGATGCTGAAACCTTTCTGGCACCCA
 GGGTCAGAAAGGAATCCAGCCCTGGTTTGGACCAGGGGAGGAGACTAATATGGGGTCTTGGTGTCTATTCC
 AGGCCACAGGGCCAGAGAGAGGCCCTCTAATGAGTCTGGGTTCTGGTCAGCAGATGAGACCTCTACAGCGT
 CTTCTTTCTGGACTGGAGAAGAGACAAGTGTGAGTATGGCCAGGGAAGAGTCCAATACCAAGTCCAG
 GCACAGGGCTAAACATCAGACTAATCCCAGGTCCAGGCCAGATCCAAGCAAGAAGCCTATGTTGATTCC
 TGGTCTGGATCTGAGGATGAGGCCAGCAACCCATTCTCCTTCTGGGTTGGAGAAAATACCAATAACTTGT
 TCAGGCCCAGAGTCAGGGAGGAGGCAAAATCAGGTCCAAGCTCAGGACAAAATAGAGAAGATTGTTTTGA
 ATCTGAGTCTGAAGATGAGTTCATAAGCAGTCTGGGTTTTGCCTGGAGAAGAGGCCAATAGTAGATTC
 AGGCACAGAGACAAAGAAGATCCTAATACTGCCTTGAACCTCAGGGCCCAGAAAGATGTTGACAGTGATA
 GGGTCAAACAAGAACCAGGTTTTGAGGAGGAAGTCAATTATGGGTCTGGTCTGGGCAGAAAAAGAGGC
 CAGTTTTGGAGGGTGGAGCTTCAGCAATCTGTGAATCTGAGCCAGGAACTGAGGAGGGGCCATTGGCGGA
 TCCGCGTACTGGGCTGAGGAAAAGTCCAGTTTGGGGGCTGTGGCCAGAGAAGAGGCCAAGCCGGAGTCTG
 AAGAAGAGGCCATATTTGGGTCCTGTTCTGGACAGAGATGAGGCCTGCTTTGACCTAAATCCCTGTCC
 TGTGTACAAGGTCAGTGATAGGTTTCAAGATGCAGCTGAGGAGCTTAATGCATCCTCCAGGCCCAAACC
 TGGGACGAGGTCAGTGTGAATCAAACCTGGTCTTTTTTTCATGGGGTTGGCTTCCGATCCACAAGCCCT
 TTGGAATCCCGAAGAGGCTTCTGAAATGCTTGAAGCAAGCCCAAGAACCTGGAACCTAGCCAGAAAG
 AGAAGAGCAGGAATCTTTGCTTCAAGCTGATCAGCCTAGTCTGAGTTCACATTTAGTATGATCCTTCC
 TACCGGTCAAGTCCGGAAATTCGAGAGCATCTTAGGGCCAGGAGAGTGCAGAGTCTGAGAGTTGGTCAT
 GCAGCTGCATACAATGTGAGCTGAAAATTTGGTTCTGAAGAGTTTGAAGAATTCCTTTTATTAATGGACA
 AATTCGGGATCCTTTTATTCATGAAATATCTAAAATTGCAATGGGTATGAGAAGTCTTCTCAATTTACC
 CGAGATTTCAATTCGAGATTCAGGTGTTGTCTCACTTATTGAAACCTTGCTTAATTTATCCATCCTCTAGAG
 TTAGGACAAGTTTTTTGGAAAATATGATTCACATGGCTCCACCTATCCAATCTAAACATGATTGAGAC
 ATTCATATGTCAAGTGTGTGAGGAAACCCTTGACATAGTGTGGATTCCCTTGAGCAGCTGACTGGAATA
 AGGATGCTTAGACACCTCACTATGACTATTGACTATCACACACTGATTGCCAACTATATGTCGGGTTTC
 TCTCCTTATTAACACAGCCAATGCGAGAACGAAGTTTCAGTTCGAAAATGCTATTGAATTTGTCTGA
 AAATCCTGCTGTGGCAAAAAAACTATTCACTGCCAAAGCTCTTTCAATATTTGTGGTCTCTTTAACATA
 GAAGAGACAAATGATAATATTCAAATTGTTATTAATAATGTTTCAGAATATCAGTAACATTATAAAAAGTG
 GAAAGATGTCCTTAATTGATGATGATTTCACTTGTAGCCGCTTATTTCTGCATTTCTGTAATTTAGGGA
 GTTAGCTAAGCAACTACAAGCCCAATAGACAACCAAAATGATCCTGAGGTGGGACAACAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230527 protein sequence
Red=Cloning site Green=Tags(s)

MTGAEIEPSAQAKPEKKAGEEVIAGPERENDVPLVVRPKVVRTQATTGARPKTETKSVPAARPKTEAQAMS
GARPKTEVQVMGGARPKTEAQGITGARPKTDARAVGGARSKTDAKAI PGARPKDEAQAQSEFGTEAVS
QAEGVSTNAVAWPLATAESGVS TKSKGLSMDRELVNVAETFPGTQGQGIQPWFGPEETNMGSWCYS
RPRAREEASNESGFWSADETSTASSFWTGEETS VRSWPRESNTRSRRRAKHQTNPRSRPRSKQEAYVDS
WSGSEDEASNPF SFWVGENTNLF RPRVREEANIRSKLRTNREDCFESESEDEFYKQSWVLPGEEANSRF
RHRDKEDPNTALKLRAQKDVDSDRVKQEP RFEVEEVIIGSWFWAEKEASLEGGASAI CESEPGTEEGAIGG
SAYWAEKSSLGAVAREEAKPESEEEAIFGSWFWDRDEACFDLNPCPVYKVSDFRDAEEELNASSRPQT
WDEVTVEFKPGLFHG VGFIRSTSPFGIPEEASEMLEAKPKNLELSPEGEEQESLLQPDQPSPEFTFQYDPS
YRSVREIREHLRARESAESESWSCSCIQCE LKIGSEEFEEFLLLMDKIRDPIHEISKIAMGMRSASQFT
RDFIRD SGVVSLIETLLNYPSSRVRTS FLENMIHMAPPYPNLNMIET FICQVCEETLAHSVDSLEQLTGI
RMLRHLTMTIDYHTLIANYMSGFLSLLT TANARTKFHVLKMLLNLSENPAVAKKLFSAKALSIFVGLFNI
EETNDNIQIVIKMFQNI SNI IKS GKMSLIDDDFSLEPLISAFREFEELAKQLQAQIDNQN DPEVGGQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6692_b11.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001184876

ORF Size: 2514 bp

OTI Disclaimer: 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_001184876.3](#)

RefSeq Size: 3857 bp

RefSeq ORF: 2517 bp

Locus ID: 114928

UniProt ID: [Q96D09](#)

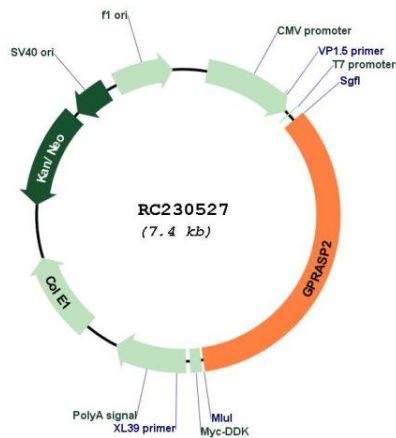
Cytogenetics: Xq22.1

Protein Families: Druggable Genome

MW: 93.8 kDa

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]

Product images:



Circular map for RC230527