

## Product datasheet for **RC215168**

### **GPRASP2 (NM\_138437) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GPRASP2 (NM_138437) 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:**

>RC215168 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACTGGGGCAGAGATTGAGCCTAGTGCCAGGCCAAGCCTGAAAAGAAGGCTGGGAAGAGGTTATCG  
 CTGGGCCTGAGAGAGAGAATGATGTCCCTCTGGTGGTCAGACCCAAGGTTAGGACCCAGGCAACTACTGG  
 GGCAAGGCCAAAACTGAGACCAAGTCTGTGCCTGCGGCAAGGCCAAAACTGAGGCCAAAGCAATGTCT  
 GGGCAAGGCCAAAACTGAGGTCCAAGTAATGGGTGGTGAAGACCCAAAAACGGAGGCTCAAGGAATCA  
 CAGGGGCCAGGCCAAAAACCGATGCCAGGGCAGTAGGTGGCGCTCGTTCTAAAACTGATGCCAAGGCAAT  
 CCCTGGAGCAAGGCCAAGGATGAGGCCAGGCATGGGCCAGAGTGAATTTGGGACTGAAGCAGTGTCA  
 CAGGCAGAAGGAGTGTCCAGACTAATGCCGTTGCTTGGCCACTGGCCACTGCTGAGTCTGGATCAGTTA  
 CTAATCTAAGGGCCTGTCTATGGATAGAGAAGTCAATGTGGATGCTGAAACCTTTCTGGCACCCA  
 GGGTCAGAAAGGAATCCAGCCCTGGTTTGGACCAGGGGAGGAGACTAATATGGGGTCTTGGTGTCTATTCC  
 AGGCCAGGGCCAGAGAGGAGGCCCTCTAATGAGTCTGGGTCTGGTCAGCAGATGAGACCTCTACAGCGT  
 CTTCTTTCTGGACTGGAGAAGAGACAAGTGTGAGTATGGCCAGGGAAGAGTCCAATACAGGTCACAG  
 GCACAGGGCTAAACATCAGACTAATCCCAGGTCCAGGCCAGATCCAAGCAAGAAGCCTATGTTGATTCC  
 TGGTCTGGATCTGAGGATGAGGCCAGCAACCCATTCTCCTTCTGGGTTGGAGAAAATACCAATAACTTGT  
 TCAGGCCAGAGTCAGGGAGGAGGCAAAATCAGGTCCAAGCTCAGGACAAAATAGAGAAGATTGTTTTGA  
 ATCTGAGTCTGAAGATGAGTTCATAAGCAGTCTGGGTTTTGCCTGGAGAAGAGGCCAATAGTAGATTC  
 AGGCACAGAGACAAGAAGATCCTAATACTGCCTTGAACCTCAGGGCCAGAAAAGATGTTGACAGTGATA  
 GGGTCAAACAAGAACCAGGTTTTGAGGAGGAAGTCATTATTGGTCTGGTCTGGGCGAGAAAAGAGGC  
 CAGTTTTGGAGGGTGGAGCTTCAGCAATCTGTGAATCTGAGCCAGGAACTGAGGAGGGGCCATTGGCGGA  
 TCCGCGTACTGGGCTGAGGAAAAGTCCAGTTTGGGGGCTGTGGCCAGAGAAGAGGCCAAGCCGGAGTCTG  
 AAGAAGAGGCCATATTTGGGTCCTGTTCTGGACAGAGATGAGGCCTGCTTTGACCTAAATCCCTGTCC  
 TGTGTACAAGGTCAGTGATAGGTTGAGAGATGCAGCTGAGGAGCTTAATGCATCCTCCAGGCCCAAACC  
 TGGGACGAGGTCAGTGTGAATCAAACCTGGTCTTTTTCATGGGGTTGGCTTCCGATCCACAAGCCCT  
 TTGGAATCCCGAAGAGGCTTCTGAAATGCTTGAAGCAAGCCCAAGAACCTGGAACCTAGCCAGAAAG  
 AGAAGAGCAGGAATCTTTGCTTCAGCCTGATCAGCCTAGTCTGAGTTCACATTCAGTATGATCCTTCC  
 TACCGGTCACTCCGGAAATTCGAGAGCATCTTAGGGCCAGGAGAGTGCAGAGTCTGAGAGTTGGTCAT  
 GCAGCTGCATACAATGTGAGCTGAAAATTTGGTTCTGAAGAGTTTGAAGAATTCCTTTTATTAATGGACAA  
 AATTCGGGATCCTTTTATTCATGAAATATCTAAAATTGCAATGGGTATGAGAAGTCTTCTCAATTTACC  
 CGAGATTTCAATTCGAGATTCAGGTGTTGTCTCACTTATTGAAACCTTGCTTAATTTATCCATCCTCTAGAG  
 TTAGGACAAGTTTTTTGGAAAATATGATTCACATGGCTCCACCTATCCAATCTAAACATGATTGAGAC  
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 AGGATGCTTAGACACCTCACTATGACTATTGACTATCACACACTGATTGCCAACTATATGTCGGGTTTC  
 TCTCCTTATTAACACAGCCAATGCGAGAACGAAGTTTCAGTCTGAAAATGCTATTGAATTTGTCTGA  
 AAATCCTGCTGTGGCAAAAAAACTATTCAGTGCCAAAGCTCTTCAATATTTGTGGTCTCTTTAACATA  
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 GAAAGATGTCCTTAATTGATGATGATTTAGTCTTGGCCGCTTATTTCTGCATTTCTGTAATTTGAGGA  
 GTTAGCTAAGCAACTACAAGCCCAATAGACAACCAAAATGATCCTGAGGTGGGACAACAAAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215168 protein sequence  
 Red=Cloning site Green=Tags(s)

MTGAEIEPSAQAKPEKKAGEEVIAGPERENDVPLVVRPKVVRTQATTGARPKTETKSVPAARPKTEAQAMS  
 GARPKTEVQVMGGARPKTEAQGITGARPKTDARAVGGARSKTDAKAI PGARPKDEAQAQSEFGTEAVS  
 QAEGVSTNAVAWPLATAESGVS TKSKGLSMDREL VNVAETFPGTQGGKGIQPWFGPEETNMGSWCYS  
 RPRAREEASNESGFWSADETSTASSFWTGEETS VRSWPRESNTRSRRHAKHQTNPRSRPRSKQEAYVDS  
 WSGSEDEASNPF SFWVGENTN NLFPRVREEANIRSKLRTNREDCFESESEDEFYKQSWVLPGEEANSRF  
 RHRDKEDPNTALKLRAQKDVSDRVKQEP RFE E E E V I I G S W F W A E K E A S L E G G A S A I C E S E P G T E E G A I G G  
 SAYWAE EKSSLGAVAREEAKPESEEEAIFGSWFWDRDEACFDLNPCPVYKVSDFRDAEEELNASSRPQT  
 WDEVTVEFKPGLFHGVGFRSTSPFGIPEEASEMLEAKPKNLELSPEGEEQESLLQPDQPSPEFTFQYDPS  
 YRSVREIREHLRARESAESESWSCSCIQCELKIGSEEFEEFLLLMDKIRDPIHEISKIAMGMRSASQFT  
 RDFIRDSGVVSLIETLLNYPSSRVRTSFL ENMIHMAPPYPNLNMIET FICQVCEETLAHSVDSLEQLTGI  
 RMLRHLTMTIDYHTLIANYMSGFLSLLTTANARTKFHVLKMLLNLSENPAVAKKLFSAKALSIFVGLFNI  
 EETNDNIQIVIKMFQNI SNI I K S G K M S L I D D D F S L E P L I S A F R E F E E L A K Q L Q A Q I D N Q N D P E V G Q Q S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6692\\_b11.zip](https://cdn.origene.com/chromatograms/mk6692_b11.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_138437

**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\\_138437.6](#)

**RefSeq Size:** 3730 bp

**RefSeq ORF:** 2517 bp

**Locus ID:** 114928

**UniProt ID:** [Q96D09](#)

**Cytogenetics:** Xq22.1

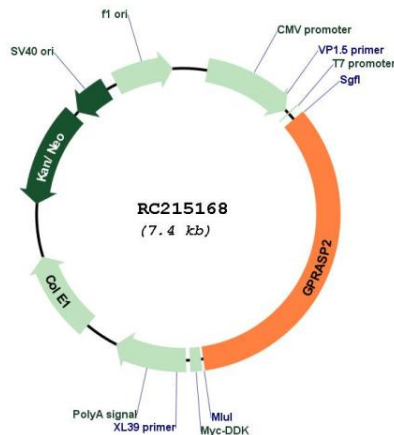
**Domains:** DUF634

**Protein Families:** Druggable Genome

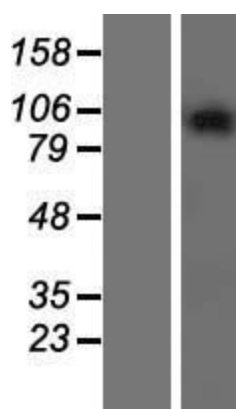
**MW:** 93.8 kDa

**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 RC215168



Western blot validation of overexpression lysate (Cat# [LY408692]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215168 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).