

Product datasheet for **RC233552**

General Receptor for phosphoinositides 1 (GRASP) (NM_001271856) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	General Receptor for phosphoinositides 1 (GRASP) (NM_001271856) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	General Receptor for phosphoinositides 1
Synonyms:	GRASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233552 representing NM_001271856 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCTTACTCCCAAGCAAAGGGGGGACACCATCGCCAGCGTCAATGGCCTGAATGTGGAAGGCATCC
GGCATCGAGAGATTGTGGACATCATTAAGGCGTCAGGCAATGTTCTCAGACTGGAACTCTATATGGGAC
ATCAATTCGGAAGGCAGAACTGGAGGCTCGTCTGCAGTACCTGAAGCAAACCTGTATGAGAAGTGGGA
GAGTACAGGTCCCTAATGGTGCAGGAGCAGCGGCTGGTGCATGGCCTGGTGGTGAAGGACCCAGCATCT
ACGACACGCTGGAGTCGGTGCCTCCTGCCTCTACGGCGCGGGCCTGCTCCCGGGCTCGTGCCTTCGG
GCCTCTGCTCGCCGTGCCCGGGCGTCCCCGCGGAGGCGCCGACGGGCCAGGGGCGACGCCGACGACGCC
GTCTACCACACGTGCTTCTCGGGGACTCCGAGCCGCGCGCTGCCGCCCCGCGCCCCGCGCCGCG
CCTTCGGCCCGGGCCCCGCCGAGACCCCTGCCGTGGGGCCGGGCCCTGGGCCGCGGGCCGCTGAGCCG
CAGCGCCAGTGTGCGGTGCGGGGCCCTGGCGGGGCGGAGGCGGGGCGCGCGGGCGCGCTCTGGACT
GAGGCTCGCGAGCAGGCCCTATGCGGCCCGGCCCTGCGCAAACCAAGTACCGCAGCTTCCGCCGGCGGC
TGCTCAAGTTCATCCCCGGACTCAACCGCTCCCTGGAGGAGGAGAGAGCCAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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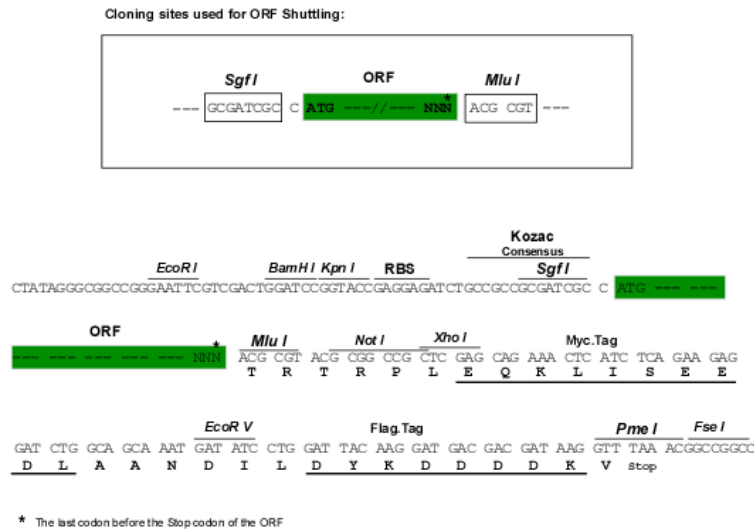
Protein Sequence: >RC233552 representing NM_001271856
 Red=Cloning site Green=Tags(s)

MTLLPSKGGDTIASVGNLNVGIRHREIVDIIKASGNVLRLETLYGTSIRKAELEARLQYLKQTLYEKWG
 EYRSLMVQEQLVHGLVVKDPSIYDTLESVRSCLYGAGLLPGSLPFGPLLAVPGRPRGGARRRGDADDA
 VYHTCFFGDSEPPALPPPPPPARAFGPGPAETPAVGPGPGPRAALSRASVRCAGPGGGGGGAPGALWT
 EAREQALCGPGLRKTYSFRRLKLFIPGLNRSLEEEESQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001271856

ORF Size: 756 bp

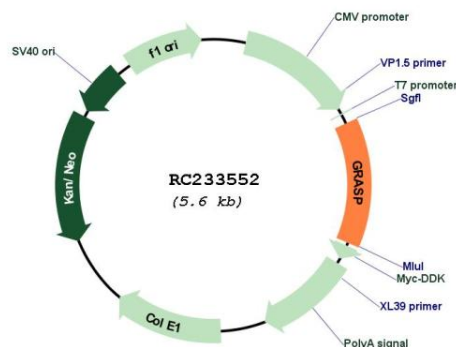
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001271856.2</u>
RefSeq Size:	1739 bp
RefSeq ORF:	759 bp
Locus ID:	160622
UniProt ID:	<u>Q7Z6J2</u>
Cytogenetics:	12q13.13
Protein Families:	Druggable Genome
MW:	27.4 kDa
Gene Summary:	This gene encodes a protein that functions as a molecular scaffold, linking receptors, including group 1 metabotropic glutamate receptors, to neuronal proteins. The encoded protein contains conserved domains, including a leucine zipper sequence, PDZ domain and a C-terminal PDZ-binding motif. Alternately spliced transcript variants have been observed for this gene.[provided by RefSeq, Dec 2012]

Product images:



Circular map for RC233552