

## Product datasheet for **SC102303**

### GRASP1 (GRIPAP1) (NM\_020137) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GRASP1 (GRIPAP1) (NM_020137) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRASP1
Synonyms:	GRASP-1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_020137, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCAAGCTCTGTCTGAGGAGGAGTTCAGCGGATGCAGGCTCAGCTCCTGGAACCTCCGGACAAACA
ACTACCAGCTTTCAGATGAACTACGCAAGAATGGTGTGAACTCACCAGTCTTCGACAGAAGGTCGCCTA
CTTGATGAAGGAGTTCAGCAAAGCTCAGAAGGCACTGAGCAAGAGCAAGAAAGCTCAGGAAGTCGAGGTA
TTGCTGAGTGAAAATGAGATGCTGCAGGCAAAGCTGCACAGCCAGGAGGAGACTTCCGTTTGCAGAACA
GCACACTAATGGCCGAGTTCAGCAAGCTCTGCAGCCAGATGGAACAGCTGGAGCAAGAGAACCAGCAACT
GAAGGAGGGGGCTGCAGGAGCAGGGGTTGCCAAGCTGGGCCCTCGTGGATGGGGAGCTGCTGAGGCTA
CAGGCTGAAAACACAGCCTTGCAGAAGAAGCTGGCAGCCCTGCAGGAACGCTATGGGAAAGAAGCCGGGA
AGTTCTCAGTGTGAGTGGGGCCAGGGGGATCCCCAGGGGGCCCGCCCCACCGTCTGGCCCCAT
GCCGTTGGCAGAGGTGGAGCTGAAATGGGAAATGGAGAAAGAGGAGAAGAGATTGCTCTGGGAACAGCTG
CAAGGCTTAGAGAGCTCAAAGCAGGCCGAAACATCCAGGCTGCAGGAGGAACTTGCTAAGCTCTCCGAGA
AACTGAAAAGAAAACAAGAAAGTTTTTGGCGTCTGCAGACAGAAAAGGAGACTCTGTTTAAATGACAGCAG
GAACAAGATTGAGGAATTACAACAACGGAAGGAAGCTGATCACAAGCCAGTTGGCTCGAACCCAGAAG
CTGCAGCAGGAACCTTGGGCTGCCAATCAGAGCTTGGCAGAGCTGAGAGATCAGCGGCAGGGGGAGCGCC
TGGAACATGCAGCAGCTTTCGGGGCCCTACAAGATCAGGTATCCATCCAGAGTGCAGATGCACAGGAACA
AGTGGAAGGGCTTTTGGCTGAGAACAATGCCTTGGAGACTAGCCTGGCTGCCCTGGAGCAGATCCAAACA
GCAAAGACCCAAGAAGTGAATATGCTCCGGGAACAGACCACTGGGCTGGCAGCTGAGTTGCAGCAGCAGC
AGGCTGAGTACGAGGACCTTATGGGACAGAAAGATGACCTCAACTCCCAGCTCCAGGAGTCATTACGGGC
CAATAGTCGACTGCTGGAACAACCTTCAAGAAATAGGGCAGGAGAAGGAGCAGTTGACCCAGGAATTACAG
GAGGCTCGGAAGAGTCCGGAGAAGCGGAAGGCCATGCTGGATGAGCTAGCAATGGAAACGCTGCAAGAGA
AGTCCCAGCACAAAGGAAGAGCTGGGAGCAGTTCTGTCTACGGCATGAGAAGGAGGTCTGGGGTGGCTGC
CCGCTATGAGCGTGGAGCTCCGAGAGCTGCATGAAGACAAGAAGCGTCAGGAGGAGGAGCTCCGTGGGCAG
ATCCGGGAGGAGAAGGCCCGGACACGGGAGCTGGAGACTCTCCAGCAGACAGTGGAGAAGTTCAGGCTC
AGGTACATTCCATGGATGGAGCCAAGGGCTGGTTTGAACGGCGCTTGAAGGAAGCCGAGGAATCCCTGCA
GCAGCAGCAGCAGGAACAAGAGGAAGCCCTCAAGCAGTGTCCGGAGCAGCAGCTGCCGAGCTGAAGGGC
AAGGAGGAGGAGCTACAGGATGTACGGGATCAGCTCGAGCAGGCCAGGAGGAGCGGACTGCCACCTGA
AGACCATTAGCAGCCTGAAGCAGGAGGTGAAGGACACAGTGGATGGCAGAGGATCCTGGAGAAGAAGGG
CAGTGCTGCGCTCAAGGACCTCAAGCGGCAGCTGCATTTGGAGCGGAAACGGGCAGATAAGCTGCAGGAG
CGACTGCAGGACATCCTACTAACAGCAAGAGCCGCTCAGGCCTTGGAGGAGCTGGTTCTCTCAGAGATGA
ACTCACCAGCCGACCCAGACAGGGGACAGCAGTAGCATCTCCTCCTCAGCTACCGGGAGATCTTGCG
GGAAAAGGAGAGCTCGGCTGTTCCAGCCAGGTCCTTATCCAGCAGCCCTCAAGCCAGCCCCCTCGGCCA
GCAGAGCTGTCAGATGAGGAAGTGGCTGAGCTCTTTCAGCGGCTGGCAGAGACACAGCAGGAGAAATGGA
TGCTGGAGGAGAAGGTGAAGCACCTGGAAGTGAAGTGTGCTGTGGCAGCAGGCCACACAGACCCG
CGCCATCATTGAGACCTACGTATGGACAGCCGGATCGATGTGTCTGTGGCAGCAGGCCACACAGACCCG
AGCGGGCTGGGCAGCGTCTGAGAGACCTAGTGAAGCCAGGTGACGAGAACCCTTCGGGAGATGAACAAGA
AGCTGCAGAACATGCTGGAGGAGCAGCTCACCAGAATATGCACTTGACAAGGATATGGAAGTTCTGTC
CCAGGAAATTGTGCGGCTCAGCAAGGAGTGCCTGGGGCCCTCCTGACCCAGACCTAGAGCCAGGAGAAACC
AGCTAA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020137 unedited  
 GATTTGTAACCGGACTTCACGATAGGGCGGCAGNGCAATTCGGCACGAGGCCCCACCCTC  
 CTGGCCCCATGCCGTTGGCAGAGGGCGGAGCTGAAATGGGAAATGGAGAAAGAGGAGAAG  
 AGATTGCTCTGGGAACAGCTGCAAGGCTTAGAGAGCTCAAAGCAGGCCGAAACATCCAGG  
 CTGCAGGAGGAAGCTTCTAAGCTCTCCGAGAAATGGAAAAAGAAACAAGAAAGTTTTTGC  
 CGTCTGCAGACAGAAAAGGAGACTCTGTTAATGACAGCAGGAACAAGATTGAGGAACCA  
 CAACAACGGAAGGAAGCTGATCACAAAGCCCAGTTGGCTCGAACCCAGAAGCTGCAGCAG  
 GAACTTGAGGCTGCCAATCAGAGCTTGGCAGAGCTGAGAGATCAGCGGCAGGGGGAGCGC  
 CTGGAACATGCAGCAGCTTTGCGGGCCCTACAAGATCAGGTATCCATCCAGAGTGCAGAT  
 GCACAGGAACAAGTGAAGGGCTTTTGGCTGAGAACAATGCCTTGAGGACTAGCCTGGCT  
 GCCCTGGAGCAGATCCAAACAGCAAAGACCCAAGAAGTGAATATGCTCCGGGAACAGACC  
 ACTGGGCTGGCAGCTGAGTTGCAGCAGCAGCAGGCTGAGTACGAGGACCTTATGGGACAG  
 AAAGATGACCTCAACTCCAGCTCCAGGAGTCATTACGGGCCAATAGTCGACTGCTGGGA  
 CAACTTCAAGAAATAGGGCAGGAGAAGGAGCAGTTGACCCANGAATTACCGGAGGCTCCG  
 AAGAGTGGGAGAANCCGGAGGCCATGCTGGGATGAGCTAGCAATGGAAACGCTGCAAGA  
 GAAGTCCAGCACAAAGGAAGAGCTGGGAGCCANTTCGTCTACCG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_020137 unedited  
 CCCCACAAAACAACCACCCCCACACCCNNAANATTGACTTGGACCCGGCCGCAATCTAN  
 GATCGGTTAGGGGGGGGGCCGT  
 CTGGCCAAAGGTATTTTGGCTGCATAGCCTTTACACACACACACACACAGTGTGCTAA  
 AACGCTGAACATGGACCACACACCCACCCAGCATCCCCAATCCCAATGCAGAGTAGCCA  
 GGCTCCAGACATAAATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATA  
 AAGGAAAGCTCATGCAAAAATGAAAACAGAAGCCCTTGGGAGCCAGGACCAAAAAAAGG  
 AGAAATCCCTGCCCTTCCCTCAGGATCCCCACTCCCTGGGGGCCCTGCCCCTAAGACAG  
 GATCATTAACTAACCATCAGGCCTTTAGCCCCTTAATGTCCAGTCTCCCAAGCTATT  
 TGATTTTGGCTCCAGCCCTCATTTTTCCACCACAGCCCAAGGGAATAGCATCCTAGGGGG  
 TAAGAAGGGGAGGAGGTGGTGCAACCTGCAGGTCTTTAGCTGGTTTCTCCTGGCTCTAG  
 GTCTGGGTGAGGAGGCCACGCACTCCTTGCTGAGCCGACAAATTTCTGGGACAGAAC  
 TTCCATCCTTGTGCAAGTGCATATTCTTGGTGTGAGCTGCTCCTCCAGCATGTTCTGCAG  
 CTCTTTGTTTCTCCGAAAGATTCTCCGCGCCTGGCTTCACTAGGGCTCTTAGGACGC  
 TGCCCAACCCGCTGTCGGTTTGTGTGGCCTGCTGCCACAGAACATTAAACCCGCTGTCCA  
 TGACGTAGGTCTCAAAGATGGCGCTCTCCGGCAAAGTTCCTTTGTCTGGAAACCCTTGT  
 TATTTTCAAGGGCTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_020137

**Insert Size:**

2660 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_020137.2</a> , <a href="#">NP_064522.2</a>
<b>RefSeq Size:</b>	3052 bp
<b>RefSeq ORF:</b>	1455 bp
<b>Locus ID:</b>	56850
<b>UniProt ID:</b>	<a href="#">Q4V328</a>
<b>Cytogenetics:</b>	Xp11.23
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a guanine nucleotide exchange factor for the Ras family of small G proteins (RasGEF). The encoded protein interacts in a complex with glutamate receptor interacting protein 1 (GRIP1) and plays a role in the regulation of AMPA receptor function. [provided by RefSeq, Aug 2013]