

Product datasheet for **SC216425**

SynGAP (SYNGAP1) (NM_006772) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	SynGAP (SYNGAP1) (NM_006772) Human 3' UTR Clone
Symbol:	SYNGAP1
Synonyms:	MRD5; RASA1; RASA5; SYNGAP
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_006772
Insert Size:	1813 bp



[View online »](#)

Insert Sequence: >SC216425 3'UTR clone of NM_006772
 The sequence shown below is from the reference sequence of NM_006772. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

```

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGCGAGTTCGAAACACCGCAGACCAC TAGCCACCCAGCATCAGAGACCTTCTCTTCTTCTTCTGTGC
ACCCACCTGTAAACAGCAACCAACCACAGGATTGGACATCACCAGGAACAGCGGGATTGCCTCCCGG
AATGCCTCCCTGGGAGGCACACTGATTGCCACCCACCACTGCACCATTTCAGGAGGGAGAGTGGG
GACCTCAGCGCCCTTTTCTTCCATTGGGGTGCTGCCCTCTTTGACCCACAGGACCCTTGC
CCCAGGACACCGCTACCCCGTACAGACCCTTCACTCCGGGTGCTATCCCATCTCTGCCTCATCG
TTCCCTGAGCACTGGGGACAGACCCTACCCACCCCTGGGGTGTTGGCACCTCCAACTTTCAACT
TCAGGGTGATTTTTTAGCAGTAACCAGAGCTGACAATCTAACTCCCTCCACCGCCCATTTTGGCCT
CCCTGCCCTTGTATGGGGAGGGACCCCGGTGAGGGGGCCCTATTACCCTTGATTCTCAGG
AGCGTCTGGGGGGCTCAGCACGCAAACTCCTTCTCCTTCTACCACTTAAATTTACTCCCTCCCC
ACCCAGAACCAGATGGGGTGGAGGGGGCCACCGGGCAGGGAGGGGGCGCAAGGGGGGAATGGGAGT
TGCTCCCTTCTCCACACCTGATCTGCTCTCGGCTGGTCCCAGAGCGGGGTGAGGGGGCTTATGCC
CCCCCTCCCCAGTGTGTTGGGTGGGGTGAATTGAGGTTAGGGTGAGGGGTGAGGGTTAGGAGGGT
GTGATGTTGGGAGGACAGGCTAGTTGATCTGCTACTCTGACACACAGTCCCTCTGCCCTTCTCT
CTCTCTTGGTCTCTACTCCAGGGGAGGGGGGAACTTACTCTAGGAAAAGCCATGTCTCTCCC
CCAGGTGAGGACAGGCTGGCTTCCCTCATCCTCCCTCCCAATCTCCTTCCACCTCCCTCCCTCC
CGCCAGCTCCACGATTTTTCGGTGTTTTCTGTACATAGTTTTCTGGCGGGATAGGGGAGGTAGGATGG
ATGGGGTTTGGGTGGGTAGGCCATGGGAGGGGAGAAGCCCTCCTTGGCACCCCTCTTCCCTGACTG
CTGTCCCTACCCAGCCTTGCCCTTCTATCCTTTTGCCTTGGTATTGAGACTCTCTAGACTCTACT
CCTCTTCTTTGTATGGACAGTCCCTTTCAGTCCCACCCCTACACATACACCAGCCGGGGCCAA
ATTTATACTTATATAAAGTTGTAATATGTGAAATTTTATCCCTGTGCCCTTCCCCACCTCAGGCC
TACCCTGGACCCTCCCAACCTTCTTCTCTCTTTGGCTGTGTAATTATCGGGTTTGTACTG
TACATATCGGGGTGTGTGTGTGGGTGGGGCAACCCTTCTGTACAGAGTCTCTGGCCCCCTCCC
CCCCGCCCTCTGCTTCCCTCCCACCACCTCAAGGGTAGGGAGTTGCTTCTCTACCTGTTTT
ATTTTGTCTTCTGTTCTCCCTCCCACCCACTCCAGCCTTATCTATCCCCCTCACTGTCCCTTT
TCTCCACTCCCAGCCCATTTCTTTTTTCTGGAGTGTGTGGTAAACAGAAAAAACATGTTTAATA
AACGGAGATTGTCTTTTA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_006772.3](#)

Summary:

This gene encodes a Ras GTPase activating protein that is a member of the N-methyl-D-aspartate receptor complex. The N-terminal domain of the protein contains a Ras-GAP domain, a pleckstrin homology domain, and a C2 domain that may be involved in binding of calcium and phospholipids. The C-terminal domain consists of a ten histidine repeat region, serine and tyrosine phosphorylation sites, and a T/SXV motif required for postsynaptic scaffold protein interaction. The encoded protein negatively regulates Ras, Rap and alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptor trafficking to the postsynaptic membrane to regulate synaptic plasticity and neuronal homeostasis. Allelic variants of this gene are associated with intellectual disability and autism spectrum disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2016]

Locus ID:

8831

MW:

64.7