

Product datasheet for **RG219010**

SAC3D1 (NM_013299) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SAC3D1
Synonyms:	HSU79266; SHD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG219010 representing NM_013299
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGGAAGGCGGGCCAGCCAGGTTACGCCCGCCCCGACCCGCCGCTCCCCACCCCCGCGCGCCT
CGCGTGCCCTCCCGCAGCACTGCCGTCCCGGGATGCTGAGCGCCACCGTCTCCCGCAGCCCCCTCAT
GCCCCGCTGCGAGCTGCCGTGGGCACCTGCCGGACATGTCCCGGCCGCCGAGCGCGCCAGCGCGAA
AGGGAGCACCGCTGCACCGCTTGGAGTGGTGCCGGTTGCCGCCAGGACCCGCCCGCGCGGATCCGC
AGCGCGCGGTGAAGGAGTACAGCCGACCCGCCCGGCAAGCCCCGCCCGCCAGCCAGTTGCGTCC
GCCCTCCGTGCTGCTGGCCACCGTGCCTACCTGGCCGGTGGAGTGGCGGAGAGCGCCGACATCGCCGC
GCCGAGGTGGCCAGCTTCGTGGCAGACCGTTGCGAGCTGTGCGCTGGACCTGGCGCTGCAGGGAGCGG
GCGACGCCGAGGCAGCGGTGGTGTGGAGGCGCGCTGGCCACGCTGTGCCGTAGTGGCGCGGCTCGG
GCCCCAGCGCGCGCGGGACCCGCGGACCCGGTGTGCTGTCAGGCCAGGTGCAGGAGGGCTTCGGCTCG
CTGCGGCGCTGCTACGCGCGGGGCGCGGGCCGACCCCGCCAACCCGCTTCCAGGGCCTCTTTCTGC
TCTATAACCTGGGCTCGGTGGAAGCCCTGCATGAGTTCTACAGCTGCCTGCTGCCCTGCGCGCTGCC
GCCCCCTCCGAAGGCCTTGGCGGTAGATGCTGCCTCCGAGAGGGCAATGCTGCCCGCTGTTCCGTCTG
CTCCAGACCCTGCCCTACCTGCCAAGTTGCGCTGTGCAAGTGCATGTGGGCCATGCCCGCCGGAAGCCC
TGGCCCGCTTCGCTCGTGCCTTTAGCACCCCAAGGGCCAGACCTTGCCCTCTGGGCTTCATGGTCAACCT
CTTGGCCCTGGATGGACTCAGGAAGCACGGGACCTGTGCCAGGCCACGGGCTGCCCTTGACGGAGAG
GAGAGAGTTGTTCCTGAGGGTGCCTACGTGGAGGAAGGCTACCGCTGCCAGTACGTCAAGGTGT
TAGTGGAGAGCAAACTTCGAGGACGTACCCTGGAGAGGTGGTCATGGCAGAGGAGGAAGATGAGGGCAC
GGACAGACCTGGGTCCCGAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG219010 representing NM_013299
 Red=Cloning site Green=Tags(s)

MAGRRAQPGSAPPRPAAPHRPASRAFPQHCRPRDAERPPSPRSPLMPGCELPVGTCPDMCPAAERAQRE
 REHRLHRLLEVVPGRQDPPRADPQRAVKEYSRPAAGKPRPPPSQLRPPSVLLATVRYLAGEVAESADIAR
 AEVASFVADRLRAVRLDALQAGDAEAADVLEAALATLLAVVARLGPDAARGPADPVLLQAQVQEGFGS
 LRRCYARGAGPHRQPAFQGLFLLYNLGSVEALHEVLQLPAALRACPLRKALAVDAAFREGNAARLFRL
 LQTLPLYLPSCAVQCHVGARREALARFARAFSTPKGQTLPLGFMVNLLALDGLREARDLCQAHGLPLDGE
 ERVVFLRGRYVEEGLPPASTCKVLVESKLGRRTLEEVVMAEEEDEGTDPRPGSPA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013299

ORF Size: 1212 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: NM_013299.2, NP_037431.2

RefSeq Size: 1584 bp

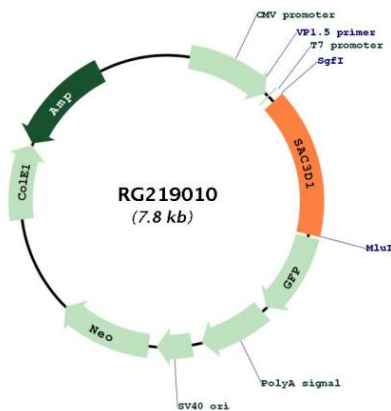
RefSeq ORF: 1077 bp

Locus ID: 29901

Cytogenetics: 11q13.1

Domains: SAC3_GANP

Product images:



Circular map for RG219010