

Product datasheet for **RG219356**

SPOP (NM_003563) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPOP (NM_003563) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPOP
Synonyms:	BTBD32; NEDMACE; NEDMIDF; NSDVS1; NSDVS2; TEF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219356 representing NM_003563 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAAGGGTCCAAGTCTCCACCTCCGGCAGAAATGTCGAGTGGCCCGTAGCTGAGAGTTGGTGCT
ACACACAGATCAAGGTAGTAAAATTCTCTACATGTGGACCATCAATAACTTTAGCTTTTCCGGGAGGA
AATGGGTGAAGTCATTAAGTTCTACATTTTCATCAGGAGCAAATGATAAACTGAAATGGTGTTCGCA
GTAACCCCAAAGGTTAGATGAAGAAAGCAAAGATTACCTGTCACCTTTACCTGTTACTGGTCAGCTGTC
CAAAGAGTGAAGTTCGGGCAAAATTCAAATTCCTCATCCTGAATGCCAAGGAGAAGAAACCAAAGCTAT
GGAGAGTCAACGGGCATATAGGTTTGTGCAAGGCAAGACTGGGGATTCAAGAAATTCATCCGTAGAGAT
TTCTTTTGGATGAGGCCAACGGCTTCTCCCTGATGACAAGCTTACCCTCTTCTGCGAGGTGAGTGTTG
TGCAAGATTCTGTCAACATTTCTGGCCAGAATACCATGAACATGGTAAAGGTTCCCTGAGTGCCGGCTGGC
AGATGAGTTAGGAGGACTGTGGGAGAAATCCCGGTTCCACAGACTGCTGCTGTGTGTTGCCGGCCAGGAA
TTCCAGGCTCACAAGGCTATCTTAGCAGCTCGTTCTCCGGTTTTAGTGCCATGTTTGAACATGAAATGG
AGGAGAGCAAAAAGAATCGAGTTGAAATCAATGATGTGGAGCCTGAAGTTTTTAAGGAAATGATGTGCTT
CATTTACACGGGGAAGGCTCAAACCTCGACAAAATGGCTGATGATTTGCTGGCAGCTGCTGACAAGTAT
GCCCTGGAGCGCTTAAAGTTCATGTGTGAGGATGCCCTCTGCAGTAACCTGTCCGTGGAGAACGCTGCAG
AAATTCTCATCCTGGCCGACCTCCACAGTGCAGATCAGTTGAAAACCTCAGGCAGTGGATTTTCATCAACTA
TCATGTTCTGGATGTCTTGGAGACCTCTGGGTGGAAGTCAATGGTGGTGTACATCCCCACTTGGTGGCT
GAGGCATACCGCTCTCTGGCTTCAGCACAGTGCCTTTTCTGGGACCCACGCAAACGCTGAAGCAAT
CC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219356 representing NM_003563
 Red=Cloning site Green=Tags(s)

MSRVSPPPPPAEMSSGPVAESWCYTQIKVVKFSYMWTINNFSCREEMGEVIKSSTFSSGANDKLKWL
 VNPVKGLDEESKDYLSL YLLL VSCPKESEVRAKFKFSILNAKGEETKAMESQRAYRFVQKDWGFKFIRRD
 FLLDEANGLLPDDKLT LFCESVSVQDSVNI SGQNTMNMVKVPECLADELGGWENSRFTDCCLCVAGQE
 FQAHKAILAARSPVFSAMFEHEMEESSKNRVEINDVEPEVFKEMMCFIYTGKAPNLDKMADLLAADKY
 ALERLKMVEDALCSNLSVENAAEILILADLHSADQLKTAQVDFINHASDVLETSGWKSMMVSHPHLVA
 EAYRSLASAQCPFLGPPRKRLKQS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003563

ORF Size: 1122 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_003563.3](#), [NP_003554.1](#)

RefSeq Size: 3053 bp

RefSeq ORF: 1125 bp

Locus ID: 8405

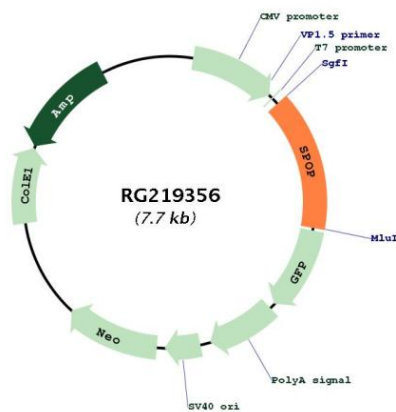
UniProt ID: [O43791](#)

Cytogenetics: 17q21.33

Domains: BTB, MATH

Gene Summary: This gene encodes a protein that may modulate the transcriptional repression activities of death-associated protein 6 (DAXX), which interacts with histone deacetylase, core histones, and other histone-associated proteins. In mouse, the encoded protein binds to the putative leucine zipper domain of macroH2A1.2, a variant H2A histone that is enriched on inactivated X chromosomes. The BTB/POZ domain of this protein has been shown in other proteins to mediate transcriptional repression and to interact with components of histone deacetylase co-repressor complexes. Alternative splicing of this gene results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219356