

Product datasheet for RC224164

SPOP (NM_001007230) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPOP (NM_001007230) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPOP
Synonyms:	BTBD32; NEDMACE; NEDMIDF; NSDVS1; NSDVS2; TEF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224164 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAAGGGTTCCAAGTCTCCACCTCCGGCAGAAATGTCGAGTGGCCCCGTAGCTGAGAGTTGGTGCT
ACACACAGATCAAGGTAGTCAAATTTCTCTACATGTGGACCATCAATAACTTTAGCTTTTCCGGGAGGA
AATGGGTGAAGTCATTAAGTTCTACATTTTCATCAGGAGCAAATGATAAACTGAAATGGTGTTCGGA
GTAACCCCAAAGGTTAGATGAAGAAAGCAAAGATTACCTGTCACCTTACCTGTTACTGGTCAGCTGTC
CAAAGAGTGAAGTTCGGGCAAAATTCAAATTCCTCATCCTGAATGCCAAGGAGAAGAAACCAAAGCTAT
GGAGAGTCAACGGGCATATAGGTTTGTGCAAGGCAAGACTGGGGATTCAAGAAATTCATCCGTAGAGAT
TTTCTTTTGGATGAGGCCAACGGCTTCTCCCTGATGACAAGCTTACCCTCTTCTGCGAGGTGAGTGTTG
TGCAAGATTCTGTCAACATTTCTGGCCAGAATACCATGAACATGGTAAAGGTTCCCTGAGTGCCGGCTGGC
AGATGAGTTAGGAGGACTGTGGGAGAAATCCCGGTTCCACAGACTGCTGCTTGTGTGTTGCCGGCCAGGAA
TTCCAGGCTCACAAGGCTATCTTAGCAGCTCGTTCTCCGGTTTTAGTGCCATGTTTGAACATGAAATGG
AGGAGAGCAAAAAGAATCGAGTTGAAATCAATGATGTGGAGCCTGAAGTTTTTAAGGAAATGATGTGCTT
CATTTACACGGGGAAGGCTCAAACCTCGACAAAATGGCTGATGATTTGCTGGCAGCTGCTGACAAGTAT
GCCCTGGAGCGCTTAAAGTTCATGTGTGAGGATGCCCTCTGCAGTAACCTGTCCGTGGAGAACGCTGCAG
AAATTTCTCATCCTGGCCGACCTCCACAGTGCAGATCAGTTGAAAACCTCAGGCAGTGGATTTTCATCAACTA
TCATGTTCTGGATGTCTTGGAGACCTCTGGGTGGAAGTCAATGGTGGTGTACATCCCCACTTGGTGGCT
GAGGCATACCGCTCTCTGGCTTCAGCACAGTGCCTTTTCTGGGACCCACGCAAACGCTGAAGCAAT
CC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224164 protein sequence
 Red=Cloning site Green=Tags(s)

MSRVSPPPPAEMSSGPVAESWCYTQIKVVKFSYMWTINNFSCREEMGEVIKSSTFSSGANDKWKCLR
 VNPKGLDEESKDYLSLYLLLVSCPKEVRAKFKFSILNAKGEEKAMESQRAYRFVQKDWGFKFIRRD
 FLLDEANGLLPDDKLTLCFCEVSVVQDSVNI SGQNTMMNVKVP ECR LADELGGLWENSRFTDCCLCVAGQE
 FQAHKAILAARSPVFSAMFEHEMEESSKNRVEINDVEPEVFKEMMCFIYTGKAPNLDKMADLLAAADKY
 ALERLKMVEDALCSNLSVENAAEILILADLHSA DQLKTQAVDF INYH ASDVLETSGWKSMMVSHPHLVA
 EAYRSLASAQCPFLGPPRKR LKQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6179_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001007230

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_001007230.1](#), [NP_001007231.1](#)

RefSeq Size: 3034 bp

RefSeq ORF: 1125 bp

Locus ID: 8405

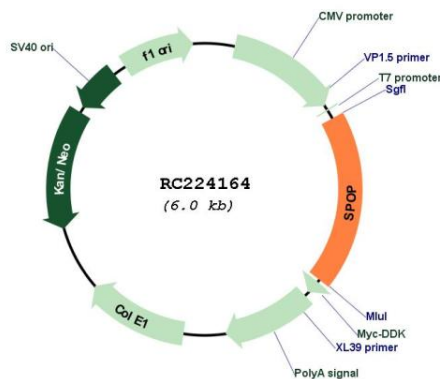
UniProt ID: [O43791](#)

Cytogenetics: 17q21.33

MW: 42.1 kDa

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 RC224164