

Product datasheet for MR205802

Spop (NM_025287) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spop (NM_025287) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spop
Synonyms:	AI315626; Pcif1; TEF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205802 representing NM_025287 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAAGGGTCCAAGTCTCCACCTCCGGCAGAAATGTCGAGTGGTCCCCTGCGGAGAGCTGGTGCT
ATACACAGATCAAGGTAGTGAAGTTCTCTACATGTGGACCATCAATAACTTTAGTTTTTCCGGGAGGA
AATGGGTGAAGTCATAAAAAGTTCAACTTTTTTCATCAGGACCAATGATAAACTGAAATGGTGTTCGCA
GTAACCCGAAAGGGCTAGATGAAGAAAGCAAAGATTACCTGTCGCTTTACCTGTTGGTTCAGCTGTC
CAAAGAGTGAAGTTCGGGCAAAGTTCAAGTTCTCCATCCTGAATGCCAAGGGAGAAGAAACCAAAGCTAT
GGAGAGTCAGCGAGCTTATAGGTTTCGTGCAAGGCAAGACTGGGGATTCAAAAAATTCATCCGAGAGAT
TTTCTCTTGACGAGGCCAATGGGCTTCTCCCTGATGACAAGCTCACCTCTTCTGTGAGGTGAGTGAG
TACAAGACTCTGTCAATATTTCTGGGCAGAATACTATGAACATGGTAAAGGTTCCGAAATGCCGGTTGGC
AGATGAGTTAGGAGGGCTGTGGGAGAACTCTCGATTACCGACTGCTGCTGTGTGGTGGTCAAGAA
TTCCAGGCTCACAAGGCTATCTTAGCAGCTCGGTCTCCAGTCTTCAGTGCCATGTTTGAACATGAAATGG
AGGAGAGCAAAAAGAATCGGGTTGAGATTAACGACGTGGAGCCTGAGGTGTTAAGGAGATGATGTGCTT
CATCTACACGGGAAGGCCCGAACCTCGACAAGATGGCTGACGACTTGTGGCAGCTGCCGATAAGTAC
GCCCTGGAGCGTCTGAAGTCTATGTGTGAGGACGCCCTCTGCAGTAACCTCTCTGTGGAGACGCTGCAG
AGATTCTCATCCTGGCTGACCTCCACAGCGCAGATCAGCTGAAGACGCGAGGAGTTGATTTTCATCAACTA
TCATGTTCTGGATGTCTTGGAGACCTCTGGGTGGAAGTCAATGGTGGTGTACATCCCCACTTAGTGGCA
GAAGCATACCGTTCTCTGGCTTCAGCACAGTGCCTTTCTGGGGCCCCACGAAACGCCTGAAGCAAT
CC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205802 representing NM_025287
 Red=Cloning site Green=Tags(s)

MSRVSPPPPAEMSSGPVAESWCYTQIKVVKFSYMWTINNFSCREEMGEVIKSSTFSSGANDKLKWCLR
 VNPKGLDEESKDYLSL YLLL VSCPKESEVRAKFKFSILNAKGEETKAMESQRAYRFVQKDWGFKKFIIRD
 FLLDEANGLLPDDKLTLCFCEVSVVQDSVNI SGQNTMMVKVPECLADELGGWENSRFTDCCLCVAGQE
 FQAHKAILAARSPVFSAMFEHEMEEESKKNRVEINDVEPEVFKEMMCFIYTGKAPNLDKMADLLAADKY
 ALERLKMVEDALCSNLSVENAAEILILADLHSADQLKTQAVDFINYNHSDVLETSGWKSMMVVSHPHLVA
 EAYRSLASAQCPFLGPPRKRLKQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025287

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_025287.2](#), [NP_079563.2](#)

RefSeq Size: 2882 bp

RefSeq ORF: 1125 bp

Locus ID: 20747

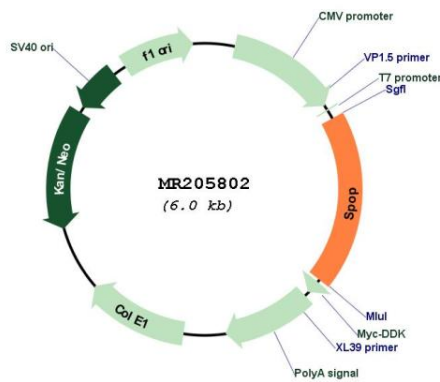
UniProt ID: [Q6ZWS8](#)

Cytogenetics: 11 59.01 cM

MW: 42.6 kDa

Gene Summary: Component of a cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex that mediates the ubiquitination of target proteins, leading most often to their proteasomal degradation. The cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex containing homodimeric SPOP has higher ubiquitin ligase activity than the complex that contains the heterodimer formed by SPOP and SPOPL (By similarity). In complex with CUL3, involved in ubiquitination and proteasomal degradation of BRMS1, DAXX, PDX1/IPF1, GLI2 and GLI3. In complex with CUL3, involved in ubiquitination of H2AFY and BMI1; this does not lead to their proteasomal degradation. Inhibits transcriptional activation of PDX1/IPF1 targets, such as insulin, by promoting PDX1/IPF1 degradation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205802