

Product datasheet for **MR208860**

Zfp451 (BC019546) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp451 (BC019546) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zfp451
Synonyms:	4930515K21Rik; 4933435G09Rik; AI596398; COASTER; Kiaa0576-hp; mKIAA1702; Znf451
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208860 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGAGACCCAGGGCCGGAGATAATAGAATCTGTCCACCAGCTGGGCCGAGGCATCAGAGTCTACCA
 CGGATGAAAACGAAGATGACATTCAGTTTGTAGTGAAGGACCGTTAAGACCCGTTTTGGAATACATTGA
 TCTAGTCAGCAGTGATGATGAAGAGCCTAGTACCTCTCACAGTGATAGAATGCCTGAATCTAAAGTGCCA
 TCCTCTGAGAATCATCGCCAGAAATGTGCTCTAGCTGCAGTGTTCTCTTCCCATTGGAGACAGCAGCT
 CCTCTCTGGGAGTTGTGCCAACAGCCACAAAGGATAGTTTCTCAACCTTCTTCTGTTGAGAACCATT
 GGAGAACCAGAAAAATGATCACAATAATCCGATGTTAGTGTCTGAAAAAGAGACACTTAAACCACAA
 AGTAATCAGACTCTGCCTTCAGCATCACTTCTGGGCTCCAGGAATCTTTGGCTTTTTCTGAGGTCAAAG
 AGGATTTACCTGGCACGATGTCTTCAGCTTACAGAGTGGACAGGATGCCATCCTGTATCTCCAGACACA
 AGTGGCTGAGATGTCCCAGTCATACGTGATCTGCAGTCCAGGAGTTGTTTTAGATTTTCATTCTAGG
 CCAAGTGAGAGCTCGTCAGTTCCTTGGGATATCTCCAGCTCTAAGGAGGACAGTTTATCCACAGTTGAAG
 AGGAGTCTGACTGCAAACTCTCCGTCAGCTGATGACAAAGGGCAGCCACCTGACCCCATGCAGTCTAGTT
 TACCGGCTTTTTGAAGAGAATGGAACAAAGGGGTGTTATAAAGAGGGTGACATTCAGTCTGAAGCAGAA
 ACCTGTGAGGGCAAGCCTGATTGGATGACCTCTAAAAACGCTTGGTTCCTCCACTGCATCCACTTTTGA
 GAATTGCCACCACTGAAGTTTTTAAAGACCCTGCTGATTGCCATCCTTCTTCTCATGGGACACAGGGT
 TTATCTGTGGCAAGGACACATCTCCTTCCAGCCAAATCCACCAGCTGAGGGACCCATCATAGATGTA
 TTAGAACATAGCAAAAGAGGAAACACAGCATCGCCTTTAGACTTACCTCAAAAGAAATGGAGGTCAATGG
 GTTGACAGTTTCTACCATGCTGCTCCATTGCAGCCCGGGCTGCTAGCTACATGGCCTATATGACTCAGTA
 TCACGTAACCTCTGGGAAGACATGGAAGATCTGGTTCATGACCCGGAGTTTGATCGTGGGAAAGCAAGG
 TGTATAATATCTGATGGCATGGATGCAGGACTTTGGCAGCTCTGTACCACTAGGGACATAATGGACTCTG
 TAGTCAGAGTTATGGCCATGGCAGTAGACTATAGAAGACAGGCCTGGCTCCGACTAACATCTCTACTAA
 GAAAACCCAGGAGAAGATCTTACACTTGCCTTTGATGGTACATCTTTTTGGACAAGATGTGAATGCT
 ATTGTTGCAGAAGACAATAGTATTAAGAAAAATGAATATAAGGATCACAATAAATACTATACTCAGCATC
 GGTACTTTTATAGTCATGATCAGAAAGCACATTATCACAACAGAGGGTACTCCAAAGGGGATTGGTACAA
 ACCCCGGAATCACCCCTATAGATACAGAAAAAAGGGAGACTCTCCAGAACGGCATGGGTATAAAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208860 protein sequence
 Red=Cloning site Green=Tags(s)

MGDPGPEIIESVPPAPGEASESTTDENEDDIQFVSEGPLRPVLEYIDLVSDDPEEPSTSHSDRMPESKVP
 SSENHRPEMCSSCSVPLPIGDSSSSSGSCANSQRIVSQPSSVENPLENQKNDHNNSDVSVSEKETLKPQ
 SNQTLPSASLLGSQESLAFSEVKEDLPGTMSSASQSGQDAILYLQTQVAEMSRVIRDLQSRSCFRFHHSR
 PSESSVPWDISSKEDSLSTVEEESDCKSPSADDKQPPDPMQSSFTGLLKRMEQRGVIKRVTFQSEAE
 TCEGKPDWMTSKRLLVPPLHPLLRATTEVFKDPADCHPSSFMGHRVYPVAKDTSFPQPNPPAEGPIIDV
 LEHSKRGNTASPLDSTSKEMEVMGCRFYHAASIAARAASYMAYMTQYQRKLWEDMEDLVHDPEFDRGKAR
 CII SDGMDAGLWQLCTTRDIMDSVVRVMAMAVDYRRQAWLRLTSLTKKTQEKILHLPFDGTSLFGQDVNA
 IVAEDNSIKENEYKDHNKYYTQHRFYFSDQKAHYHNRGYSKGDWYKPRNHPYRKRKGDSPERHGYKN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC019546

ORF Size: 1677 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: [BC019546](#), [AAH19546](#)

RefSeq Size: 1928 bp

RefSeq ORF: 1679 bp

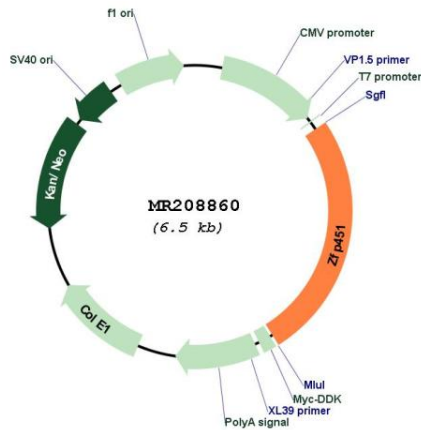
Locus ID: 98403

Cytogenetics: 1 12.81 cM

MW: 62.7 kDa

Gene Summary: E3 SUMO-protein ligase; has a preference for SUMO2 and SUMO3 and facilitates UBE2I/UBC9-mediated sumoylation of target proteins. Plays a role in protein SUMO2 modification in response to stress caused by DNA damage and by proteasome inhibitors (in vitro). Required for MCM4 sumoylation. Has no activity with SUMO1 (PubMed:26524493). Preferentially transfers an additional SUMO2 chain onto the SUMO2 consensus site 'Lys-11'. Negatively regulates transcriptional activation mediated by the SMAD4 complex in response to TGF-beta signaling. Inhibits EP300-mediated acetylation of histone H3 at 'Lys-9'. Plays a role in regulating the transcription of AR targets (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208860