

Product datasheet for **MC217938**

Zfp451 (BC019546) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >BC019546
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAGACCCAGGGCCGGAGATAATAGAATCTGTCCACCAGCTGGGCCGAGGCATCAGAGTCTACCA
 CGGATGAAAACGAAGATGACATTCAGTTTGTAGTGAAGGACCGTTAAGACCCGTTTTGGAATACATTGA
 TCTAGTCAGCAGTGATGATGAAGAGCCTAGTACCTCTCACAGTGATAGAATGCCTGAATCTAAAAGTCCA
 TCCTCTGAGAATCATCGCCAGAAATGTGCTCTAGCTGCAGTGTTCTCTTCCCATTGGAGACAGCAGCT
 CCTCTCTGGGAGTTGTGCCAACAGCCACAAAGGATAGTTTCTCAACCTTCTTCTGTTGAGAACCATT
 GGAGAACCAGAAAAATGATCACAATAATCCGATGTTAGTGTCTGAAAAAGAGACACTTAAACCACAA
 AGTAATCAGACTCGCTTCAGCATCACTTCTGGGCTCCAGGAATCTTTGGCTTTTTCTGAGGTCAAAG
 AGGATTTACCTGGCACGATGTCTTCAGCTTACAGAGTGGACAGGATGCCATCCTGTATCTCCAGACACA
 AGTGGCTGAGATGTCCCAGTCATACGTGATCTGCAGTCCAGGAGTTGTTTTAGATTTTCATTCTAGG
 CCAAGTGAGAGCTCGTCAGTTCCTTGGGATATCTCCAGCTCTAAGGAGGACAGTTTATCCACAGTTGAAG
 AGGAGTCTGACTGCAAAATCTCCGTCAGCTGATGACAAAGGGCAGCCACCTGACCCCATGCAGTCTAGTTT
 TACCGTCTTTTTGAAGAGAATGGAACAAAGGGTGTATAAAGAGGGTGACATTCAGTCTGAAGCAGAA
 ACCTGTGAGGGCAAGCCTGATTGGATGACCTCTAAAAACGCTTGGTTCCTCCACTGCATCCACTTTTGA
 GAATTGCCACCACTGAAGTTTTTAAAGACCCTGCTGATTGCCATCCTTCTTCTCATGGGACACAGGGT
 TTATCCTGTGGCAAGGACACATCTCCTTCCAGCCAAATCCACCAGCTGAGGGACCCATCATAGATGTA
 TTAGAACATAGCAAAAGAGGAAACACAGCATCGCCTTTAGACTCTACCTCAAAGAAATGGAGTCAATGG
 GTTGCAGGTTCTACCATGCTGCTCCATTGCAGCCCGGGCTGCTAGCTACATGGCCTATATGACTCAGTA
 TCACGTAACCTCTGGGAAGACATGGAAGATCTGGTTCATGACCCGGAGTTTGATCGTGGGAAAGCAAGG
 TGTATAATATCTGATGGCATGGATGCAGGACTTTGGCAGCTCTGTACCACTAGGGACATAATGGACTCTG
 TAGTCAGAGTTATGGCCATGGCAGTAGACTATAGAAGACAGGCCTGGCTCCGACTAACATCTCTACTAA
 GAAAACCCAGGAGAAGATCTTACACTTGCCTTTGATGGTACATCTTTTTGGACAAGATGTGAATGCT
 ATTGTTGCAGAAGACAATAGTATTAAGAAAATGAATATAAGGATCACAATAAATACTATACTCAGCATC
 GGTACTTTTATAGTCATGATCAGAAAGCACATTATCACAACAGAGGGTACTCCAAAGGGGATTGGTACAA
 ACCCCGGAATCACCCCTATAGATACAGAAAAAAGGGAGACTCTCCAGAACGGCATGGGTATAAGAATAA
 ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: BC019546

Insert Size: 1680 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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

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]