

Product datasheet for **MC228307**

Zfp451 (NM_001290700) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp451 (NM_001290700) 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: >MC228307 representing NM_001290700
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGAGACCCAGGGCCGGAGATAATAGAATCTGTCCACCAGCTGGGCCGAGGCATCAGAGTCTACCA
CGGATGAAAACGAAGATGACATTCAGTTTGTAGTGAAGGACCGTTAAGACCCGTTTTGGAATACATTGA
TCTAGTCAGCAGTGATGATGAAGAGCCTAGTACCTCTCACAGTGATAGAATGCCTGAATCTAAAGTGCCA
TCCTCTGAGAATCATCGCCAGAAATGTGCTCTAGCTGCAGTGTTCTCTTCCCATTGGAGACAGCAGCT
CCTCTCTGGGAGTTGTGCCAACAGCCACAAAGGATAGTTTCTCAACCTTCTTCTGTTGAGAACCATT
GGAGAACCAGAAAAATGATCACAATAATCCGATGTTAGTGTCTGAAAAAGAGACACTAAACCACAA
AGTAATCAGACTCTGCCTTCAGCATCACTTCTGGGCTCCAGGAATCTTTGGCTTTTTCTGAGGTCAAAG
AGGATTTACCTGGCAGATGTCTTCAGCTTACAGAGTGGACAGGATGCCATCCTATATCTCCAGACACA
AGTGGCTGAGATGTCCCAGTCATACGTGATCTGCAGTCCAGGAGTTGTTTTAGATTTTCATATTCTAGG
CCAAGTGAGAGCTCGTCAGTTCCTTGGGATATCTCCAGCTCTAAGGAGGACAGTTTATCCACAGTTGAAG
AGGAGTCTGACTGCAAACTCTCCGTCAGCTGATGACAAAGGGCAGCCACCTGACCCCATGCAGTCTAGTTT
TACCGTCTTTTTGAAGAGAATGGAACAAAGGGTGTATAAAGAGGGTGACGTTCCAGTCTGAAGCAGAA
ACCTGTGAGGGCAAGCCTGATTGGATGACCTCTAAAAACGCTTGGTTCTCCACTGCATCCACTTTTGA
GAATTGCCACCACTGAAGTTTTTAAAGACCCTGCTGATTGCCATCCTTCTTCTCATGGGACACAGGGT
TTATCTGTGGCAAGGACACATCTCCTTCCAGCCAAATCCACCAGCTGAGGGACCCATCATAGATGTA
TTAGAACATAGCAAAAGAGGAAACACAGCATCGCCTTTAGACTTACCTCAAAAGAAATGGAGGTCATGG
GTTGCAGGTTCTACCATGCTGCTCCATTGCAGCCCGGGCTGCTAGCTACATGGCCTATATGACTCAGTA
TCACGTAACCTCTGGGAAGACATGGAAGATCTGGTTCATGACCCGGAGTTTGATCGTGGGAAAGCAAGG
TGTATAATATCTGATGGCATGGATGCAGGACTTTGGCAGCTCTGTACCACTAGGGACATAATGGACTCTG
TAGTCAGAGTTATGGCCATGGCAGTAGACTATAGAAGACAGGCCTGGCTCCGACTAACATCTCTCACTAA
GAAAACCCAGGAGAAGATCTTACACTTGCCTTTGATGGTACATCTTTTTGGACAAGATGTGAATGCT
ATTGTTGCAGAAGACAATAGTATTAAGAAAAATGAATATAAGGATCACAATAAATACTATACTCAGCATC
GGTACTTTTATAGTCATGATCAGAAAGCACATTATCACAACAGAGGGTACTCCAAAGGGGATTGGTACAA
ACCCCGGAATCACCCCTATAGATACAGAAAAAAGGGAGACTCTCCAGAACGACATGGGTATAAGAACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001290700

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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<ol style="list-style-type: none">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:	<u>NM_001290700.1</u> , <u>NP_001277629.1</u>
RefSeq Size:	2077 bp
RefSeq ORF:	1680 bp
Locus ID:	98403
Cytogenetics:	1 12.81 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) has a distinct 3' structure and 3' terminus, compared to variant 1. The encoded protein (isoform 3) has a shorter and distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>