

Product datasheet for **MC229132**

Zfp451 (NM_001290699) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp451 (NM_001290699) 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: >MC229132 representing NM_001290699
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGAGGTCTGAGAAGCCAATTTTGTGTCCTATAATGCACTGTAAACAAGGAATTTGACAAATGGGCACC
 TTCTGTTGGGACATTTGAAAAGTTTGATCACTCCCATGTGATCCACAAATTACGTTACATGGACCTCT
 GGTAATTCGTTTGCATGTGCAGTGTGCTATGAACATTTCTGTTACTCAACAGCAGTACAAGGACCATCTT
 CTCTCCAGGACAGCTGCAGCCGATGGACATAGCAATAGCCTTCTTCTCAGATTATTCAATGTTATGCTT
 GTCCACAGTGTCTCTTTTGTAGCACAAGGATGAGTGTGTTGAAGCATATGCTACAAAGAATCATT
 CCATCAGAGCTTAAACTGAGTGATAATAAAGGAACGGCCCGCCAATATCATTCCATCTTTTGCAAAAG
 AAGCGTTTGGTCTCTCTGTGCAAAGATGTTCCATTTAGGTTAAGTGTGGCCTGCCACCAGACTCTGC
 GTTCTCACATGGAGCTCACTGCCATTTAGGGTTCGTTGTCAAATGCTGGACCTGTTGCTATAGCTGA
 AAAAGCATTACTCAGGTGCAAAAAGAAATTCATAGTAAGAGGTTATTGTTGAGATTGCAACCAGGCTTT
 ATGGATGTAGCCAGCACCAAGTCACAAGAATTCAGGACACAAAATTACTTGCAGAACTCGGTGGAAAG
 AATCTGTCTTGCTTTATTGCCACATCAGTGAAGGGAGTCCGGCTCCTTGTGATTTACATTTATTTAGTCA
 ACCAAAAATTTTCACTTAAACGGATTCTGTCCGTTAAAGAGTCCAGTGCAGAGGATTGTATCGTTCGG
 ACAAGAAGGTGAACTTAAAGTGTGAAAGCCTTGGAGGTGCAACTCGTGTGCAGAGGCAGAGTCCAGCAG
 TCACAGCTGGTTTTGTGAATGCAGACGGCAGTTTCCAGTGAAGAGGGCGGTAGAAAAGCATGTTTTCTC
 GGCAAAACAATGTGTTAAGTGTGGTCTGTGAAAGGTTTGTGAAGATTGGGGGTGATGCGTTTAC
 CACATGAGCCGGTTTTCATGGAGGGGCGCATTAAATAACTTTCTATTTTGGTGTGGAGCAGTCAAAAAGG
 AGTTAGTAAAGAAAGATGCCATCATGGCACACATTACTGAGTTTTCATAGTGGGCATAGATTTTTATGA
 GATGGATGAGGTAGAGGAGGAAGAGGAGGCCATGCCGTCTCCTCTGTGGAGAGCCATTTGAATACT
 GACAAACCTCCTTACCCATTGCTGTTGTTGATCACTGCCCGGCCAACAGTCTCCAGGGGAGGTGGC
 AGTGCCGCATCTGTGAGGACATGTTGAAATCCCAGGAGTGTGTAAGCAGCACTGCATGCTTGAACAAG
 CCACCGTTTTACAGATACAGCTGTGCCACTGCAGAAAGACTTCCATAAAGTGGAAACTCTGTACCGA
 CATTGCCAGGACGAGCATGACAGTGAATCATGATGAAGTACTTCTGTGGGCTTTGTGATCTCATTTTTA
 ACAAGGAAGAAGAATTTCTGAGTCACTATAAGGAACACCACAGCATAGATTATGTGTTTGTGCAGAAAA
 AACTAAAACCTCAATTAAGTGAAGGCGATTTAAAATAGTAGAGACCAGTAGTTTACTAAGCTGTGGC
 TGTGATGAGGTTACATGTGTAATAACAGAAAGGAAGACTATGACCGATGCCTTCCAGTCTGCTGG
 AGAAAGGTAGGCTGTGGTTTTCGCTGCAGCTCGTCTCAGCCACAGCACAGAATGTGACCGACATTAAAC
 TCACGTCTGCCAAGTGCACAGAAAGAGAAAAGTGAAGGAGGAGCAGCAGTATGTGATCAAGTGTGGC
 TGCACCAAGGCATTCCAGAACACGGAGAGCGCTCAGCAGCACTTCCACAGGAAGCAGCGGCCCTCCAGA
 AACCCACCGGACCCAGGGGGAGCCAACAGAAGCAGCAGCATGCCAGCTGGCTGCTAGTGCTCAGATGC
 TGAGAAAAACCTGAAACAGCCTAGCTCTCAGAAACATTCAGACGTGAAAAAGGAGCTGAGCATGATGTA
 CGCTGCCAGAACATAGAGGAGGAAGTTGAGCTTCCGGATGTGGACTACCTGCGGACCATGACTCACATAG
 TCTTTGTAGATTTGATAACTGGTCCAATTTTTTGGTCTACTACTGGGCATCTTAATCAAGGAACGTT
 TATTTGGGGCTTTCAAGGGGAAACACCAACTGGAAGCCCCGCTCAGCTGTAAGGTCTATAATTACTTG
 AGCAGGATTGGCTGCTTCTTCTTCCATCCGCTGCAGTAAAAGAAAAGATGCCGCGGATTTTGCCATAT
 GTATGCATGCTGGCGTCTAGATGAGCAACTTCCAAACAAATTCCTTTACCATCCTCTCGGGAGACCA
 AGGCTTTCTGGAGCTAGAGAATCAATTTAAGAAGACCCAGAGGCCAGCTCATATACTAAACCCTCACCAC
 TTAGAGGGAGACATGATGTGTCCTTGTAAATAGCATATCTGATACTACCAAAGAGTGTGACAGTGACG
 ATAGCTCGGGATGAAAGGATCTCCAGCAGAGGAGCTCAGGGCCACGGAGGATGTGGAATTAGAAGAAGC
 TATTAGAAGAAGTCTTGAGGAGAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001290699

Insert Size:	2688 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_001290699.1</u> , <u>NP_001277628.1</u>
RefSeq Size:	3792 bp
RefSeq ORF:	2688 bp
Locus ID:	98403
UniProt ID:	<u>Q8C0P7</u>
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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded protein (isoform 2) has a shorter N-terminus, compared to isoform 1.</p>