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Product datasheet for MC223398

Zfp451 (NM_133817) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp451 (NM_133817) 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
Fully Sequenced ORF:	>MC223398 representing NM_133817 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGAGACCCAGGGCCGGAGATAATAGAATCTGTCCCACCAGCTGGGCCCGAGGCATCAGAGTCTACCA CGGATGAAAACGAAGATGACATTCAGTTTGTTAGTGAAGGACCGTTAAGACCCGTTTTGGAATACATTGA TCTAGTCAGCAGTGATGATGAAGAGCCTAGTACCTCTCACAGTGATGAGAATTTTAAATGCAAAGACTAT ATAGATCACCAGAAGGATAAAGTTGCTTTAACTTTGGCTCGCCTGGCCCGCCATGTTGAAGTAGAAAAAC AACAGAAAGAAGAGAAGAACAGGGCATTTAGGGAAAAAATTGATTTTCAGCACGCTCATGGTTTACAAGA GTTGGAGTTTATTCAAGGACATTCAGAAACAGAAGCAGCAAGACAGTGTGTGGACCAGTGGCTAAAAATG CCAGGACTCAGAACAAATGCAGCTAATTCTGGAACAAAAAGATCATTCCAACGTGGAGGCAGGATGTGGA GGTCTGAGAAGCCAATTTTGTGTCCTATAATGCACTGTAACAAGGAATTTGACAATGGGCACCTTCTGTT GGGACATTTGAAAAGGTTTGATCACTCCCCATGTGATCCCACAATTACGTTACATGGACCTCTGGCTAAT TCGTTTGCATGTGCAGTGTGCTATGAACATTTCGTTACTCAACAGCAGTACAAGGACCATCTTCTCTCCA GGACAGCTGCAGCCGATGGACATAGCAATAGCCTTCTTCCTCAGATTATTCAATGTTATGCTTGTCCACA GTGCTTCCTTTTGTTTAGCACCAAGGATGAGTGTTTGAAGCATATGTCTACAAAGAATCATTTCCATCAG AGCTTTAAACTGAGTGATAATAAAGGAACGGCCCGCCCAATATCATTTCCATCTTTTGCAAAGAAGCGTT TGGTCTCTCTGTGCAAAGATGTTCCATTTCAGGTTAAGTGTGTGGCCTGCCACCAGACTCTGCGTTCTCA CATGGAGCTCACTGCCCATTTCAGGGTTCGTTGTCAAAATGCTGGACCTGTTGCTATAGCTGAAAAAAGC ATTACTCAGGTTGCAAAAGAATTCATAGTAAGAGGTTATTGTTCAGATTGCAACCAGGTCTTTATGGATG TAGCCAGCACCCAAAGTCACAAGAATTCAGGACACAAAATTACACTTGCGAACTCGGTGGAAGAATCTGT CTTGCTTTATTGCCACATCAGTGAAGGGAGTCGGCCTCCTTGTGATTTACATTTATTTAGTCAACCAAAA ATTTCATCACTTAAACGGATTCTGTCCGTTAAAGAGTCCAGTGCAGAGGATTGTATCGTTCCGACAAAGA AGGTGAACTTAGGTGTTGAAAGCCTTGGAGGTGCAACTCGTGTGCAGAGGCAGAGTCCAGCAGTCACAGC CTGGTTTTGTGAATGCAGACGGCAGTTTCCCAGTGAAGAGGCGGTAGAAAAGCATGTTTTCTCGGCAAAC ACAATGTGTTATAAGTGTGTGGTCTGTGGAAAGGTTTGTGAAGATTCGGGGGTCATGCGTTTACACATGA

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GCCGGTTTCATGGAGGGGCGCATTTAAATAACTTTCTATTTTGGTGTCGGACGTGCAAAAAGGAGTTAGT
AAAGAAAGATGCCATCATGGCACACATTACTGAGTTTCATAGTGGGCATAGATATTTTTATGAGATGGAT
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GAGACATGATGTGTGCCTTGTTAAATAGCATATCTGATACTACCAAAGAGTGTGACAGTGACGATAGCTC
GGGGATGAAAGGATCTCCAGCAGAGGAGCTCAGGGCCACGGAGGATGTGGAATTAGAAGAAGCTATTAGA
AGAAGTCTTGAGGAGATGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_133817

Insert Size: 3171 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: NM_133817.3, NP_598578.1

RefSeq Size: 4030 bp

RefSeq ORF:	3171 bp
Locus ID:	98403
UniProt ID:	Q8C0P7
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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).