

Product datasheet for **MC221005**

Suz12 (NM_001163018) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Suz12 (NM_001163018) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Suz12 |
| Synonyms: | 2610028O16Rik; AI195385; AU016842; AW536442; D11ErtD530; D11ErtD530e; mKIAA0160 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC221005 representing NM_001163018
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCCTCAGAAGCACGGCGGTGGGGAGGGGGCGGCTCGGGGCCAGCGCGGGTCCGGGGAGGCG
 GCTTCGGGGTTCGGCGCGCGCGGTGGCGCGCGGCTTCGGGCGCAAATCCGGCGCGGGGGCTGTGG
 AGGCGCGGCAGTTACTCGGCCTCCTCCTCCTCGGCGCGCGCGCGCGCGGGGGCCGCGGTG
 TTGCCGTTGAAGAAGCCGAAAATGGAGCACGTCCAGGCTGACCACGAGCTTTTCTCCAGGCCTTTGAGA
 AACCAACACAGATATATAGATTTCTTGAAGTCTGAAATCTTATCGCACCAATATTTTTGCACAGAACTCT
 TACTTACATGTCTCATCGAAATTCAGAACAGCATCAAAGCTTGTCTGCACATTTGCAACTTACATTT
 ACCGGTTTCTCCACAAAATGATAAGCCATCACAAAACCTCAGAAAATGAACAAAATTCTGTTACCTGG
 AAGTCTGCTTGTGAAAGTTGCCACAAAAAAGGAAGGATGTAAGTTGTCCAATAAGACAAGTCCCTAC
 TGGTAAAAAGCAGGTGCCTTTGAATCCTGACCTCAATCAAACAAAACCAGAAAATTTCCATCCCTGGCA
 GTTCCAGTAATGAATTTGAACCTAGTAACAGCCATATGGTGAAGTCTACTCGTTGCTGTTTAGAGTAA
 CTCGTCCAGGAAGAAGAGAAATTAATGGAATGATTAATGGAGAAAACCAATGAAAATATTGATGTCAGTGA
 AGAACTCCAGCCAGAAGAAAACGAAATCGCGAAGATGGAGAAAAGACATTTGTTGCACAAATGACAGTT
 TTTGACAAAAACAGGCGTTTACAGCTTTTATAGTGGGAATATGAAGTGGCCATGCAGGAAATGGAAGAAT
 GTCCAATAAGTAAGAAAAGAGCAACATGGGAGACAATTTCTGATGGGAAGAGGCTGCCTCCATTTGAGAC
 ATTTTCTCAGGGACCTACATTACAATTTACTCTTCGATGGACAGGAGAAAACCAACGATAAGTCTACAGCT
 CCTGTTGCCAAGCCTCTTGCCACTAGAAATTCAGAGAGCCTTCATCAGGAAAATAAGCCTGGTTCTGTTA
 AACCTGCACAAAATATTGCTGTTAAGGAGACGCTGACTACAGAGCTGCAAACAAGAAAAGAAAAGGATAA
 TTCAAATGAAAAGTCGCCAGAAAGTTAAGAATATTTTATCAGTTCTTTTATAACAATAATACAAGACAACAG
 ACAGAAGCCAGAGACGACCTGCACTGCCGTGGTGCACCTGAACTGCCGTAACCTGTATAGCTTACTCA
 AACATCTAAAGCTCTGCCACAGCAGTTTCACTTCAATTACGTATATCATCCAAAAGGTGCTAGGATAGA
 TGTTTTCAATCAATGAGTGTATGATGGCTCCTATGCAGGAAATCCTCAGGATATACATCGCCAACCTGGA
 TTTGCTTTTAGTCGAAATGGACCGGTAAGAGAACACCTATCACACATTTCTTGTGTCAGGCCAAAAA
 GAACAAAAGCAAGCATGTCGGAGTTTCTTGAATCTGAAGATGGAGAAGTGGAGCAGCAGAGAACATACAG
 CAGTGGCCACAATCGTCTCTATTTCCACAGTGATACCTGCTTACCTCTTCGGCCACAAGAAATGGAAGTA
 GATAGTGAAGATGAGAAAGATCCAGAATGGCTGAGAGAAAAACCATTACTCAAATTAAGAATTTTCTG
 ATGTGAATGAAGGAGAGAAAGAAGTATGAAGCTGTGAACTCCATGTCATGAAGCATGGATTTATTGC
 TGACAATCAAATGAATCATGCCTGTATGCTGTTTGTAGAAAATTATGGACAGAAAATAATTAAGAAGAAT
 TTATGTGCAAACTTATGCTTCTAGTACAGCATGCATGACTTTAATCTTATTAGCATAATGTCAATAG
 ATAAAGCTGTTACCAAGCTCCGAGAAAATGCAGCAAAAACCTAGAAAAGGAGAAATCTGCGACCCCTTCAA
 TGAAGAAATAGCTGAGGAACAAAATGGAACAGCAAAATGGATTGAGTAACTAACTCAAAGAGAAAAGCT
 TTGAAAACGACGGTGTCTCAGGGTTCAAAAACAGAGCAAGAAACAAAACCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001163018
Insert Size: 2157 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).

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| 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_001163018.1, NP_001156490.1</u> |
| RefSeq Size: | 4380 bp |
| RefSeq ORF: | 2157 bp |
| Locus ID: | 52615 |
| UniProt ID: | <u>Q80U70</u> |
| Cytogenetics: | 11 47.36 cM |
| Gene Summary: | <p>This gene encodes a core component of the polycomb repressive complex 2 (PRC2) that also includes, at least, embryonic ectoderm development protein (EED) and enhancer of zeste homolog 1 or 2 (EZH1 or EZH2). Through the methyltransferase activity of EZH1 or EZH2, the PRC2 complex methylates Lys9 and Lys27 of histone 3 and Lys26 of histone 1, leading to recruitment of the PRC1 complex, histone 2A ubiquitylation and transcriptional repression of the target genes. This gene product is essential for the activity and integrity of the PRC2 complex, and is required for X chromosome inactivation, stem cell maintenance and differentiation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. The encoded isoform (2) is shorter compared to isoform 1.</p> |