

Product datasheet for **MC220899**

BC002230 (BC025577) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | BC002230 (BC025577) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | BC002230 |
| Synonyms: | 6720454P05Rik |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >BC025577
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGGGCTCTTTCTTCAGCAGTGCCACTTTCTACGGCAGGCTGGCCACTCAGAGAAGGTCATCTCTT
 TGTTCAGGCCATGGTTGACTTCACCTTCTCAAGCCTGACAGTGTGAAAGAGCTGCCTACTAAAGTACA
 GGTGGAATTTCTTGGACCTTCTGGGACAGCGGAGAACCACGCGTTGGGAGAAGGGAGCCCGAGCTGG
 CGGGCGTGGATGCACCAACAGGAGCGAGGTGGCTGGGTGCTCATCACCCAGATGAGGATGACGAGGAGC
 CCGAAGAGGAGGACCAGGAGATAAAAGACAAGACCCTGCCCGGTGGCAGATCTGGCTTGTGTTGAGCG
 TTCTCGAGACCAGAGGCACTGGCGTCCCTGGCGCCCTGATAAGACCAAGAAGCAAACGGAGGAAGACTGT
 GAGGACCCTGAGAGACAGGTGCTGTTTGTGACATTGGGCAATCTTTGATCAGACTTTCCAGCCAGACC
 TTCAGTCCAGCTCATCCAGGCCTTCTGCAGTTCCTGGGCGTGCCTCCGGCTTCTGCCCCAGCCTC
 CTGCCCTTACCTGGCCATGGACGAGAGCAGCATCTTTGAGAGTGAACCTTATGATGAAAAGCCCTGACT
 TACTTCAACCCTTCTTTTCGGGCATTAGCTGTGTCGGCTCCATGGAACAGTTGGGTACCCCTCGCTGGA
 CCAAAGGTCACAACCGAGAGGGCGAGGAGTTTGTCCGCAATGTCTCCACCTGGTGTGCCTTTGTCTCGC
 AGGCAAGCAGAAGTCCCAGGTCTGCCTCTCCTGGTTACGGTACGAGATTGCAAAGGTCATTTGGTGTCTA
 CACACTAAAAGAAGCGATTGAAGTCTCAGGAAAAGAGCTGCAAAAACTAGCCAAGAATCTCCTCAAGG
 AGCCAGAAAACCGCAACAACCTTCTGCCTCTGGAAGCAGTATGCACACCTGGAGTGGTTGCTCGGTAACAC
 AGAGGATGCCAGAAAAGTGTTCGACACAGCACTCAGCATGGCAGGCAGCAGCGAGCTGAAGGACCGTGAA
 CTCTGCGAGCTCAGTCTGCTCTATGCCGAGCTGGAGATGGAAGTGTGCCGGACTCAAGAGGAGCCACCA
 CAGGCCGAGCGGTCCACATATTAACACGACTGACGGAGAGCAGTCCCTACGGGCCCTACACGGGGCAGGT
 CTCGTCCACCCAGGTGCTGAAAGCTCGGAAGGCTTACGAGCTCGCGCTGCAGGACTGCCTGGGCCAGAGC
 TGTGCCTCCAGCCAGCTCCTGCAGAGGCTTGGACTGCCTGGGTAGCTTGGTCCGATGCTTTATGCTCT
 TCCAGTATTTGACTGTGGCATTGATGCTGCTGTGCAGATATACGGAAGGTTGTTGCCAAGCTGAAGGG
 CTCTGCTCGCTTAGAAGACCCAGGGCCAGAGGACAGCACCAGCTCCAGAGTTTGACCAATGTGCTCGAG
 GCTGTCAGCATGATGCACACAAGCCTGCTGCGATTCCACATGAACGTTTGTGTTACCCTCTGGCTCCAC
 TCCGAGAGACCCTCTCCGATGCTTAAAGCTGTATCCGGCAACCAGGTTCTTTGGAGGGCTTATGTACA
 GATTGAGATAAGTCCCACAGTGTAAACAAGACCAGAAGGTTCTTTGACACAGTACTAGGTCTGCCAAA
 CATTTGGAGCCTTGGCTATTTGCAATCGAAGCTGAGAAGCTGAGGAAAAGCTAGTGAATCTGTTGAGA
 GGGTAGGAGGCAGAGAGGTCCATGCAACAATCCCGAGACTGGCCTTACGCATCGCATCAGAGCTTGT
 TGAATGCGATTTCGGAGCGACAAGGGCAACCAGTGTCCCTACTGTGGAGGATGATTTGAAATTTTTG
 GTTTCCTTAGGAAAACAAAGAAAGAAAGCAAGGCGTGTCTACAAGGCCCTCCAGAGCTGTCTTGGGCAA
 AGGTGCTATACATGGACGCCATGGAGTATTTCCAGACGAGCTGCAGGAGATCCTGGACGTGATGCCGA
 GAAGGAGCTCCGTGTGCGCTGCCCTTGGAGGCTGGAGCTGCTGCTGGAGGATTAG

AG**CGGACCG**ACGCGT**ACGCGGCCGCTCGAGCAGAAA**CTCATCTCTGAAGAGGATCTGGCAGCAAATGATA
 TCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-RsrII

ACCN: BC025577

Insert Size: 2088 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>BC025577</u> , <u>AAH25577</u> |
| RefSeq Size: | 2358 bp |
| RefSeq ORF: | 2087 bp |
| Locus ID: | 217827 |
| Cytogenetics: | 12 E |
| Gene Summary: | Protein of the nuclear speckles that regulates RNA degradation and export from the nucleus through its interaction with MTREX an essential factor directing various RNAs to exosomal degradation. Changes the conformation of MTREX, precluding its association with the nuclear exosome and interaction with proteins required for its function in RNA exosomal degradation. Negatively regulates, for instance, the degradation of mRNAs and lncRNAs by inhibiting their MTREX-mediated recruitment to nuclear exosome. By preventing the degradation of RNAs in the nucleus, it promotes their export to the cytoplasm. [UniProtKB/Swiss-Prot Function] |