

Product datasheet for **MC219232**

Exd1 (NM_172857) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exd1 (NM_172857) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Exd1
Synonyms:	4932702D22Rik; Exd11; mExd1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >MC219232 representing NM_172857
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATCCAGCAGTACTACCATTTCCTCAACCAGATTTTGTGGAGAAGGGTGAAGCTCACACTGGTGT
CTGGCATCTTTGAGGGCGTGCTCCAGCACGTGGATCCTAACAAGATTGTTGTCTGAAAAACGTGAGGAA
TGCAGAGTCGGGCGCAGCGTCCAGGGGTGAAAGTGTTCTTCGGGCACGAGATCTGAATGTGGAACCTA
ATGGATGAAGCAGAAGGTGCATCGGGGAGAAGGCATCCGCTGTTAGCATAAATACAGAACGAGCTGGAA
TGGAGAAAAGTAAAAATGAAGACGTCAATGTCTGTGAGCCGGCTTACCTGCACCAGAGGTGCCAACCG
CTCTCTCCTCAGTGACCTCAAGTACTGCCCGTCAGAGGAAGAGGAGGTGACATACACAGTCATTGATCAG
TTCCAGCAGAAGTTGGTGTGCAATGTCCACATCAAGAAGCAGAGTGTCTGAGTGTGCTGCCGAAG
GCGCCAATGTGTGTCGCATGGGAACTCTGTTGGCTTCAGGTGGCCACAACAGCCGAGTTACTTGT
TGATTTTTCTTCTGGGAAGTCGTGCTTCAATAATGGACTTCAGATGATCTTAGAAGACAAGAGAATC
TTAAAGGTTATCCACGATTGTGCGTGGCTCTGACTGCCTGTCTCATCAGTATGGAATCATGCTGAACA
ATGCTTTTGATACACAGGTAGCCGACGTCTTCAATTTCTATGGAACGGGTGGCTTTCTTCAAACCTG
TATCAGTACTTTGAGGAGATTTAATCAGACACCTTAAAGTTGCTCCAGATACCTTTTCTTTTGAAG
GAGAGACAGAAACGTATTCAGGAAAATCCAGAAAATATGTTTGACAAGACCTTCCACCCTCTTTATTGA
AAATCTTGGCCCTGGAACAACCTACCTGCTTCCACTTCGATTGGTGTCTCTGGATGAGGTGATGTCAGA
CTTAACCACACTGGTGGATGGGTACCTGAACACCTACCGGGAGGGCTCTGCAGACCGCTTGCAGGCACA
GAGCCTGCGTGTATGGAGCTGCCAGCAGAGCTTCTTCAACTCCAGGACTCCAGAAACAGCGCAGAGAGC
GAGCTGTGAAGGAGTACAGAGTGAACGCACGGGGCTCCTCATAAGGACTCCACTGCACCCAAAGGAGCC
GACAGCTTGACACAGCAGGAAAAGAGGAGCGAGTCCAGGGTTTCTATTTTATAAGACGGATGGTGGAGAC
CAAGTTCCACGCTTTTTATGTCCAAATCTCATGAGGATGAGAAGTTTTTGGATAAAGAATCTAAACAAA
CCACAGCAAAGTCTCAGATTGTGCCTCCAGGAAGGAAGGCGAAGCCATAAGGACTCTAAGAACAAACC
GGGGTGTGGGAGTCAGCGGGCCAGAAGACCCGAGAGCCAGAAAGCCACGCCCTGCCTCCACGTGG
GCATCTCAGTCCCAGTTTTCTTTGAAAGAGGAGATAGAGCAGTTGACAGTGGTGGGAAATAAGGGAGCTT
TAACAAGCCAAAAGAAGGCGCTTGGTGTGCGCTTCTCTCCTCAGGAAACCTGGGAGGCCAACCTGA
CACCTTCCATCTTCTGAAAAGCTGAGGTCTCTACACTTCTCCCTGTCCAGCCCTGGAGAAGACAGAC
TCATGGATAAGTCCATCTTAAATCTGTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_172857

Insert Size: 1713 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_172857.2](#), [NP_766445.1](#)

RefSeq Size: 3143 bp

RefSeq ORF: 1713 bp

Locus ID: 241624

UniProt ID: [Q8CDF7](#)

Cytogenetics: 2 E5

Gene Summary: RNA-binding component of the PET complex, a multiprotein complex required for the processing of piRNAs during spermatogenesis. The piRNA metabolic process mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposable elements, preventing their mobilization, which is essential for the germline integrity (PubMed:26669262). The PET complex is required during the secondary piRNAs metabolic process for the PIWIL2 slicing-triggered loading of PIWIL4 piRNAs. In the PET complex, EXD1 probably acts as an RNA adapter. EXD1 is an inactive exonuclease (By similarity).[UniProtKB/Swiss-Prot Function]