

Product datasheet for SC317194

TDRD12 (NM_001110822) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TDRD12 (NM_001110822) Human Untagged Clone
Tag:	Tag Free
Symbol:	TDRD12
Synonyms:	ECAT8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317194 representing NM_001110822. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGCTCCAGCTCCTGGTCTGAAGATTGAAGATCCAGGTTGCTTCTGGTTATTATAAAAGGGTGTAGT
 CCCTTTTGTAGTCATGATGTCGATTATCAAAAATTAAATAGTGCCATGAATGACTTCTACAACAGCACG
 TGTCAGATATAGAAATAAAACCTTAACATTGGAAGAAGGACAGGTGTGTGGTCTATTGTGAGGAG
 CTAAGTGCTGGTGCAGGGCCATTGTCAAATCAATTACGCTTCCGCAGACCAGTACCTGGCAGAATGT
 TTCCTTGTGGACTTTGCCAAGAACATTCCAGTCAAATCTAAAAACATCCGAGTTGTAGTAGAATCGTTT
 ATGCAGCTTCCCTATAGAGCAAAAAATTCAGCCTGTACTGCACAAAGCCTGTCACATTACACATTGAC
 TTCTGCCGAGACAGTACTGACATTGTACCTGCCAAGAAGTGGGACAATGCAGCTATTCAGTACTTTCAG
 AACCTTCTGAAAGCAACTACCCAGGTGGAAGCCAGATTATGTGCTGTGGAAGAAGATACATTTGAGGTT
 TACCTTTATGTAAGTATAAAAGATGAAAAAGTTTGTGTTAATGATGATCTTGTGCAAAGAACTATGCT
 TGTATATGTCACCTACAAAGAATAAAACCTTGATTATTTAGAAAAACCAAGATTGAATATAAAATCA
 GCACCTCCTTCAATAAACTCAATCCAGCACTTACACTCTGGCCAATGTTTTGCAAGGAAAAGATGTT
 CAAGGAATGGAAGATTCACATGGTGTAAATTTCCGGCACAATCTCTGCAACATACATGGTGCAAGGGT
 ATTGTCCGTGACCTCAGGCCAACAGCCACAGCACAGGACAAAGCTGTAAATGTAATATGGATTCATTG
 AGAGATTCACCTAAAGACAAATCTGAAAAGAAACACCATTCATCTCTTTAAAGATACAATAAGCGT
 GTTGAATCCTCAGTGTACTGGCCAGCAAAAAGAGGCATAACCATATATGCTGATCCAGATGTACCAGAA
 GCAAGTGCTTTAAGTCAGAAGTCAAATGAGAACTCTTAGATTGACTGAGAAGAAAGAAATATGATGAG
 AAGAATAGCTGTGTGAAATTACTGCAGTTTTTAAATCCTGATCCTTTGAGAGCTGACGGAATCTCTGAT
 CTCCAGCAGACT**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: SgfI-MluI


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ACCN:	NM_001110822
Insert Size:	1188 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001110822.1</u>
RefSeq Size:	1617 bp
RefSeq ORF:	1188 bp
Locus ID:	91646
UniProt ID:	<u>Q587I7</u>
Cytogenetics:	19q13.11
MW:	45 kDa
Gene Summary:	Probable ATP-binding RNA helicase required during spermatogenesis to repress transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which 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 transposons. Involved in the secondary piRNAs metabolic process. Acts via the PET complex, a multiprotein complex required during the secondary piRNAs metabolic process for the PIWIL2 slicing-triggered loading of PIWIL4 piRNAs.[UniProtKB/Swiss-Prot Function]