

Product datasheet for **SC126090**

EXDL1 (EXD1) (NM_152596) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXDL1 (EXD1) (NM_152596) Human Untagged Clone
Tag:	Tag Free
Symbol:	EXDL1
Synonyms:	EXDL1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_152596 edited
 GCGTACCTTTCTCCAGGTTTTACAGCCTGTGATTTGATAACCGCCCGGGTGGCGTGGAG
 CGTCCCGAGACTTCTTCCTTCATTGCAGCCCCTTCTTTTAGTTCTAGACTGAAGTTCCG
 AGGAACGCACCACTTGGCTGAAATTAGGATCCAGATTTCCCAAATTCCTTCGGAGGAAA
 AAGCCCTAACGATGGAGGACAGTGAATTCCTAGCTTATGTGGAACACTAGATGAAGTGG
 AACAAAGGCTCAGTGAGAGCAAAAGCATCTTCTGTTAGTCTACATGCAGAAAGAACCTGGA
 TGGAGAAAATGAAAGTTGAAGACCTAAATGTATGTGAGCCTGCTTCTCCTGCCCTGAAG
 CACCAGCTACCTCTCTGCTGAATGACCTCAAGTACAGCCCATCAGAGGAAGAGGAGGTGA
 CATACACAGTCATTAATCAATCCAGCAGAAGTTGGTGTGCGATACTCCATATCAAGA
 AGCAGAATGTCCTGAGTGTGGCAGCAGAAGGAGCGAATGTATGTCGCCATGGCAAATGT
 GCTGGCTGCAGGTGGCCACAAATGCGGAGTTACTTATTTGACATTTTCCTTCTGGGAA
 GTCGAGCTTTCCACAATGGACTTCAGATGATACTAGAAGACAAGAGAATTTTGAAGTTA
 TCCATGATTGTCGTTGGCTTTCTGATTGCCTCTCTCATCAGTATGGAATTTTGTGAATA
 ATGTCTTTGACACACAGGTAGCAGATGTACTTCAGTTTTCCATGGAAACGGGTGGCTATC
 TTCCAAACTGCATCACTACTTTGCAGGAGAGTTTAAATCAAACACCTTCAAGTAGCCCTA
 AATATCTCTCCTTTCTAGAAAAGAGACAAAAACTAATTACAGAAAATCCAGAAATGATGGT
 TCATCCGACCTGTTTCACCCTCTTACTGAAAATTTTGGCCCTGGAAGCTACCTACCTGT
 TACCCCTTCGCTTGGCACTCCTAGATGAGATGATGTCTGACCTAACCCCTGGTGGATG
 GTTACCTAAACACGATTCGCGAAGGGTCTGCAGACCGGCTTGGAGGCACTGAGCCTACAT
 GTATGGAGCTGCCAGAGGAAGTCTTCAACTCAAGGACTTCCAGAAGCAGCGCAGGGAGA
 AAGCTGCAAGAGAATATAGGGTGAATGCACAGGGACTCCTGATAAGGACAGTGTACAGC
 CAAAGAAATAGTGACAGAGACAGCAGGGAAAGAGGAGAAAGTCAAAGGCTTCTTATTTG
 GTAAAAATTTTAGGATAGATAAAGCTCCAAGTTTTACATCTCAAGACTTTCACGGGGATG
 TGAATTTACTGAAAGAAGAATCTTTGAATAAACAAGCTACAAATCCTCAACATCTACCTC
 CCACGGGGAAGGGGAAACTAGTGAGGATTCCAGTAACAAACTCATTTGCACAAAGTCAA
 AGGGGTGACAGGACCAGAGAATAACTCAGAAAGAACAATTTATGACACCCAAACATGAGT
 TTCAGGCAAGTTTATCTTTGAAAGAGGAGACAGAACAGTATTGATGGTGGAAAACAAGG
 AAGATTTAAAATGCACAAAACAGGCTGTTTCAATGTCTTCTTCTCAGGAAACCAGAG
 TGTCTCCAAGTGACACTTTTTATCCTATCAGAAAGACTGTGGTTCCACACTCCCTCCCT
 GTCCAGCCTTGGAGAAGATCGATTCTGGATAAGTCTTTCTAAATCTGCCCTAGAGAT
 GGGCAGTTTGTCTTAAAGCCATGCAGATGGCTTATTTCTTTGCCATCAGGGCTTTCCA
 CAGTGCCAGGTTTCTCATGTTGTAATGTAGTAAATGCTTCAGTACAGGGGAAAATTAT
 ATCCTCTGTCTACTCCTGTGTTCTGGTATGCGGAGAATGAGAATGAATAAGTTAAATA
 ATGGAAGAAGTATAATTTCTGATTATGTCACTGTGTAGAAATGTTCTCAGTGACCAGAGT
 GCATTATTTTTCATAATTTGGGTTTAGAGGATTTGAAGAAAGGAAGAATCTTGGGCTTAG
 TATCAGGAAGACTCCATCATTTTCAAATTTGTTTTGCTTCTTGACTTTTGGATTCTTTT
 GAAGAGACCTGGTAAAATTAACAATTCATTTAAAAAATTTGGTACCTGATAAATTTAC
 CAGTACTTTTTTCTTTTTATTTATTTGTTTTATTTATTTTTTTTTTACCCTCCTTGGG
 AGCAGGGCTACACCATAGGCAGTGTGCCAGAGTAACCACTTTTTTCTTTTTAAAAAT
 AATATTAACTTTATGTTTGAATGTTGAATGTTTGTCTGTCTTAGGCAATAATGTTA
 TAGGAATCAATAATTTAATTTTTGTTTTATTTGTTTTTGGTGGAGTCTCACTCTGTCAC
 CCAGGCTGGAGTGTAGTGGTGAATCTCTGCTCACTGCAACCTCCGCCTCCCGGGTTCAA
 GCAATTTCTCTGCCTCAGCCTCTGAGTAGCTGGGATTACAGGTGCGTGCCACCACGCC
 GGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGGCTGGTCTCG
 AACTCCTGACTGACCTTGTGGTCCACCTGCCTTGGCCTTCAAAGTGTGGGATTACAGG
 TGTGAGGCACGGTGCCCAATATCTTTATTTAATTTGTTTTATTTCTTTATTTT
 TAGCTGGTTTTGTCCATTTTCTAACAAGCAGGGACCCTGGGTTTCTTTTTAGTCTGTC
 TGTATATAAACTTGAAGCCTGACTCCATTCTATTTGCCTGGAGTTAGTATACTTTCTTA
 GGGTGAAGGAAGGCAGCTTGTATTGAGCCTTTTAAAGTATTGAATGCTTGCAAATTTGCT
 AACATTCTTTTGTGTAATAAACCAATAAACCTGTTTTGTCACTACTTAAAAAAA
 AAAAAAAA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_152596 unedited GGTCGGATTTGTATACGACTCATATAGGCCGCCGATAACTTCGTATAGCATACATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGCGTACCTTCTCCAGGTTTTTCAGCCTGTGATTTGATAACCGCCGCCGGGTGGCGTGGAGCGTCCCGAGACTTCTTCCTTCATTGCAGCCCCCTCTTTTAGTTCTAGACTGAAGTTCGAGGAACGCA CCACTTGGCTGAAATTAGGATCCAGATTTCCCAAATTCCTTCGGAGGAAAAAGCCCTAACGATGGAGACAGTGAATTCCTAGCTTATGTGGAACACTAGATGAAGTGAACAAGGCTCAGTGAGAGCAAAAGCATCTTCTGTTAGTCTACATGCAGAAAGAACCTGGATGGAGAAAA TGAAGTTGAAGACCTAAATGTATGTGAGCCTGCTTCTCCTGCCCTGAAGCACCAAGCTA CCTCTCTGCTGAATGACCTCAAGTACAGCCCATCAGAGGAAGAGGAGGTGACATACACAG TCATTAATCAATTCAGCAGAAGTTTGGTGTGCGATACTCCATATCAAGAAGCAGAATG TCCTGAGTGTGGCAGCAGAAGGAGCGAATGTATGTCGCCATGGCAAACCTGTGCTGGCTGC AGGTGGCCACAAATTGCCGAGTTACTTATTTGACATTTCTTCTGGGAAGTCGAGCTT TCCACAATGGACTTCAGATGATACTAGAAGACAAGAGAATTTGAAGTTATCCATGATT GTCGTTTGCTTTCTGATTGCCTCTCTCATCAGTATGGAATTTGCTGAATAATGTCTTTG ACACACGGTAGCANATGTACTTCAGTTTTTCATGGAAAACGGTGGCTATCTTCCAAACTG CATCACTACTTTGCAGGAGAGTTAATCAACCACCTTCAGTAGCCCA
Restriction Sites:	NotI-NotI
ACCN:	NM_152596
Insert Size:	2900 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:	<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:	NM_152596.2 , NP_689809.2
RefSeq Size:	2949 bp
RefSeq ORF:	1545 bp
Locus ID:	161829
UniProt ID:	Q8NHP7
Cytogenetics:	15q15.1

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 (By similarity). 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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate upstream start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.