

## Product datasheet for **RG238940**

### EXDL1 (EXD1) (NM\_001286441) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EXDL1 (EXD1) (NM_001286441) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EXDL1
Synonyms:	EXDL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238940 representing NM\_001286441.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGACCCAGCAGTACTACCATTTCTCAGCCAGATTTTGTGGAAGAGGGTGAAACTCACATTGGTC
TGTGGTGTCTTCGAGGGTGTGCTTCAGCATGTTGACCCTAATAAGATTGTTGTCCTGAAGAAAGTGAAG
AATGTGGAGACAGTTCGAAGTGTCCAGGAGTGAAGTTGTTTTTGGGCATGAGATTGTGAATGTGGAA
CTACTAGATGAAGTGAACAAGGCTCAGTGAGAGCAAAAGCATCTTCTGTTAGTCTACATGCAGAAAGA
ACCTGGATGGAGAAAATGAAAGTTGAAGACCTAAATGTATGTGAGCCTGCTTCTCCTGCCCTGAAGCA
CCAGCTACCTCTCTGCTGAATGACCTCAAGTACAGCCATCAGAGGAAGAGGAGGTGACATACACAGTC
ATTAATCAATCCAGCAGAAGTTTGGTGTGCGATACTCCATATCAAGAAGCAGAATGTCCTGAGTGTG
GCAGCAGAAGGAGCGAATGTATGTCGCATGGCAAAGTGTGCTGGCTGCAGGTGGCCACAAATTGCCGA
GTTTACTATTTGACATTTTCTTCTGGGAAGTCGAGCTTCCACAATGGACTTCAGATGATACTAGAA
GACAAGAGAATTTGAAGTTATCCATGATTGTGCTTGGCTTTCTGATTGCTCTCTCATCAGTATGGA
ATTTTGTGAATAATGTCTTTGACACACAGGTAGCAGATGTACTTCAAGTTTTCCATGAAACGGGTGGC
TATCTTCCAAACTGCATCACTACTTTGCAGGAGAGTTAATCAAACACCTTCAAGTAGCCCTAAATAT
CTCTCCTTTCTAGAAAAGAGACAAAACAAATTCAGGAAAATCCAGAAGTATGGTTCATCCGACCTGTT
TCACCCTCTTACTGAAAATTTGGCCCTGGAAGCTACCTACCTGTTACCCCTTCGCTTGGCACTCCTA
GATGAGATGATGTCTGACCTAACCCCTGGTGGATGGTTACCTAAACACGTATCGCGAAGGGTCTGCA
GACCGGCTTGGAGGCACTGAGCCTACATGTATGGAGCTGCCAGAGGAAGTCTTCAACTCAAGGACTTC
CAGAAGCAGCGCAGGGAGAAAAGCTGCAAGAGAATATAGGGTGAATGCACAGGGACTCCTGATAAGGACA
GTGCTACAGCCAAAGAAATTAGTGACAGAGACAGCAGGGAAAGAGGAGAAAAGTCAAAGGCTTCTTATTT
GGTAAAAATTTAGGATAGATAAAGCTCCAAGTTTTACATCTCAAGACTTTCACGGGATGTGAATTTA
CTGAAAGAAGAATCTTTGAATAAACAAGCTACAAATCCTCAACATCTACCTCCCACAGAGGAAGGGGAA
ACCAGTGAGGATCCAGTAACTCAATTTGCACAAAAGTCAAAGGGGTGAGAGGACCAGAGAATAACT
CAGAAAGAACAACCTTATGACACCCAAACATGAGTTTCAGGCAAGTTTATCTTTGAAAGAGGAGACAGAA
CAGTTATTGATGGTGGAAAACAAGGAAGATTTAAATGCACAAAACAGGCTGTTTCAATGTCTTCTTTT
CCTCAGAAAACCAGAGTGTCTCCAAGTACACTTTTTATCCTATCAGAAAGACTGTGTTTCCACACTC
CCTCCCTGTCCAGCCTTGGAGAAGATCGATTCTGGATAAGTCTTTTCTAAATCTGCC
ACCGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238940  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MDPSSDYHFLSQILWKRKVLTLVGVFEGVLQHVDPNKIVVLKVKVNVETGRSVPGVKLFFGHEIVNVE
LLDEVEQGSVRKASSVSLHAERTWMEKMKVEDLNVCEPASPAPAPATSLNLDLKYSPEEEEEVYTV
INQFQQKFGAAILHIKKQNVLSVAAEGANVCRHGKLCWLQVATNCRVYLFDFLLGSRAFHNLQMI
DKRILKVIHDCRWLSDCLSHQYILLNNVFDQVADVLQFSMETGGYLPNCITTLQESLIKHLQVAPKY
LSFLEKRQKLIQENPEVWFIRPVSPSLKILALEATYLLPLRLALLDEMMSDLTTLVDGYLNTYREGSA
DRLGGTEPTCMEPEELLQLKDFQKQRREKAAREYRVNAQGLLIRTVLQPKKLVETAGKEEKVKGFLF
GKNFRIDKAPSFSTQDFHGDVNLKESLNKQATNPQHLPTTEGETSEDSSNKLICTKSKGSEDQRIT
QKEHFMPKHEFQASLSLKEETEQLLMVENKEDLKCTKQAVSMSSFPQETRVSPSDTFYPIRKTVVSTL
PPCPALEKIDSWISPFNLNP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001286441

**ORF Size:** 1716 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

**RefSeq:** [NM\\_001286441.2](#)

**RefSeq Size:** 3264 bp

**RefSeq ORF:** 1719 bp

**Locus ID:** 161829

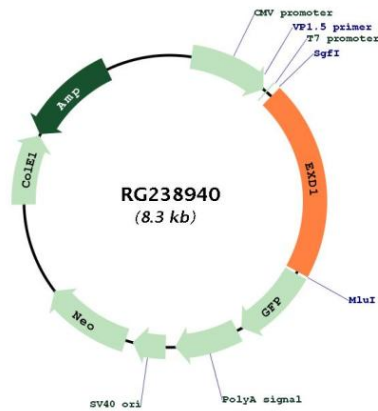
**UniProt ID:** [Q8NHP7](#)

**Cytogenetics:** 15q15.1

**MW:** 65.3 kDa

**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]

**Product images:**


Circular map for RG238940