

Product datasheet for **RC238940**

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:	Myc-DDK
Symbol:	EXD1
Synonyms:	EXDL1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238940 representing NM_001286441
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGGATCGCC**

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Protein Sequence:

>RC238940 representing NM_001286441
 Red=Cloning site Green=Tags(s)

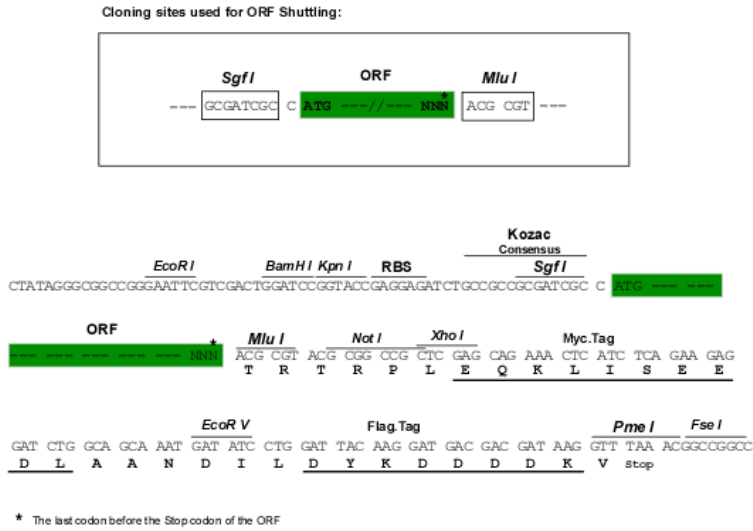
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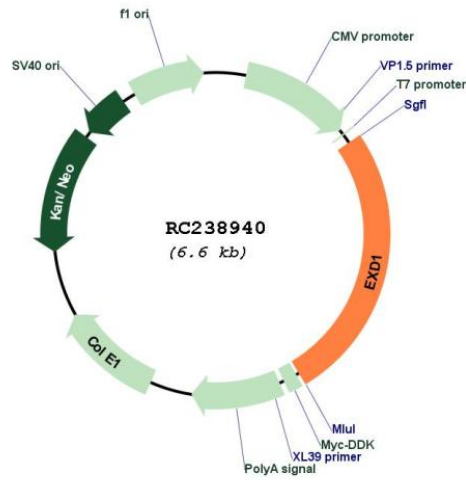
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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_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]