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Product datasheet for RC223325

TDRD6 (NM_001010870) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TDRD6
Synonyms:	bA446F17.4; CT41.2; NY-CO-45; SPATA36; TDR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC223325 representing NM_001010870
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC223325 representing NM_001010870
Red=Cloning site Green=Tags(s)

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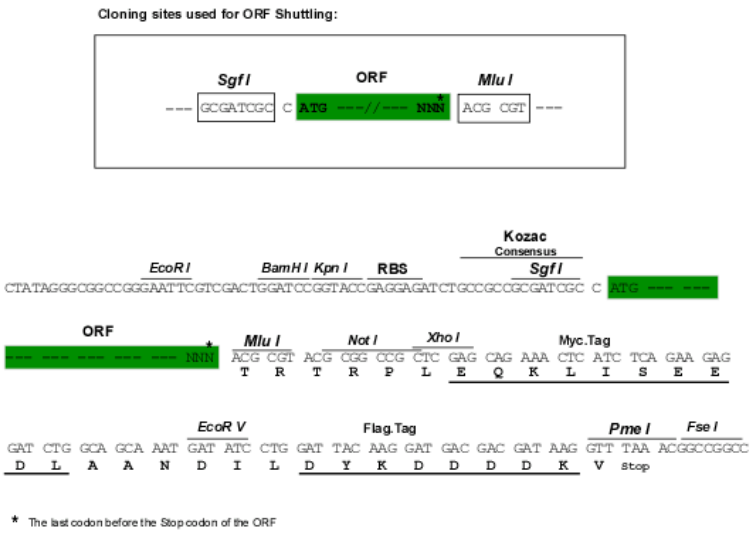
Chromatograms: https://cdn.origene.com/chromatograms/mk8045_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001010870

ORF Size: 6288 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001010870.3

RefSeq Size: 6817 bp

RefSeq ORF: 6291 bp

Locus ID: 221400

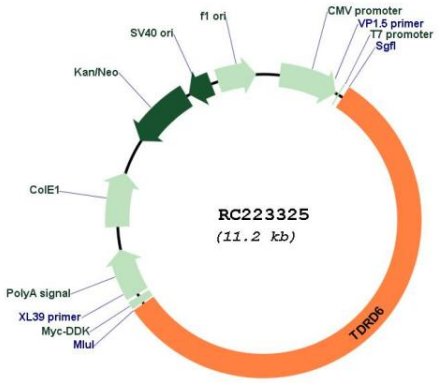
UniProt ID: O60522

Cytogenetics: 6p12.3

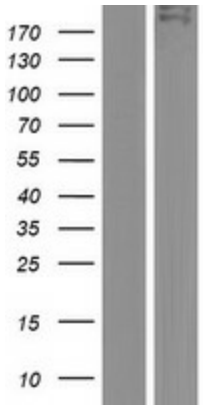
MW: 236.3 kDa

Gene Summary: This gene encodes a tudor domain-containing protein and component of the chromatoid body, a type of ribonucleoprotein granule present in male germ cells. Studies in rodents have demonstrated a role for the encoded protein in spermiogenesis and the nonsense mediated decay (NMD) pathway. This protein is a major autoantigen in human patients with autoimmune polyendocrine syndrome type 1 (APS1). [provided by RefSeq, Oct 2016]

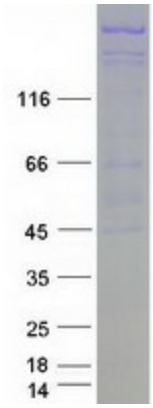
Product images:



Circular map for RC223325



Western blot validation of overexpression lysate (Cat# [LY423196]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223325 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TDRD6 protein (Cat# [TP323325]). The protein was produced from HEK293T cells transfected with TDRD6 cDNA clone (Cat# RC223325) using MegaTran 2.0 (Cat# [TT210002]).