OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC207323

TIGD1 (NM_145702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIGD1 (NM_145702) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TIGD1
Synonyms:	EEYORE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC207323 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCTAAGTGCTCAAGTGAAAGGAAGAGTCGCACATCTCTCACTTTAAATCAAAAACTAGAAATGA
TTAAACTGAGTGAGGAAGGTATGTCAAAAGCCGAGATAGGCCGAAGGCTAGGCCTCCTGCGGCAAACAGT
TAGCCAAGTTGTAAATGCAAAGGAAAAGTTCTTGAAGGAAGTTAAAAGTGCTACTCCAATGAACACACGA
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AGCTGAGAGAGGTGTGGAAGCTGCAGAAGAAAAGTTTGAAGCTAGCAGAGGTTGGTTCATGAGGTTTAAG
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GTTATCCAGAAGCTTTAGCTAAGATCATTGACGAAGGTGGCTACACTAAACAACAGATTTTCAATGTAGA
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GGCTTCAAAGCTTCAAAGGACAGGCTGACTCTCTTGTTAGGGGCTAATGCAGCTGGTGACTTTAAGTTGA
AGCCAATGCTTATTTACCATTCTGAAAATCCTAGGGCCCTTAAGAGTTATACTAAATCTACTCTACCCGT
GCTATATAAATGGAACAGCAAAGCCCGGATGACAGCACATCTGTTTACAGCATGGTTTACTGAATATTTT
AAACCCACTGTTGAGACCTACTGCTCAGAAAAGAAGATTCCTTTCAAAATATTACTGCTCATTGGCAATG
CCCCTAGTCATCCAAGAGCTCTGATGGAGATATACGAGGAGATTAATGTTATTTTCATGCCTGCTAACAC
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GAAGAGTCAACTCATGCGAAAAGCTTCACCGATGTCTTATTTTAGGAAATTGCCACAGCCACCCCAACCT
TCAGCAGCCACCACCCTGACCAGTCAGCAACCATCAACCTCGAGGCAAGACCCTCCACCAGCAAAAAGAG
TACGACTCACCGAAGGCTCAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207323 protein sequence
Red=Cloning site Green=Tags(s)

MASKCSSERKSRTSLTLNQKLEMIKLSEEGMSKAEIGRRLGLLRQTVSQVVNAKEKFLKEVKSATPMNTR
MIRKRNSLIADMEKVLVVWIEDQTSRNIPLSQSLIQNKALTLFNSMKAERGVEAAEEKFEASRGWFMRFK
ERSHFHNIKAQGEAASADVEAAASYPEALAKIIDEGGYTKQQIFNVDETAFYWKKMPSRTFIAREEKSVP
GFKASKDRLTLLLGANAAGDFKLKPMLIYHSENPRALKSYTKSTLPVLYKWNSKARMTAHLFTAWFTEYF
KPTVETYCSEKKIPFKILLLIGNAPSHPRALMEIYEEINVIFMPANTTSILQPMDQGVISTFKSYYLRNT
FHKALAAMDSDVSDGSGQSKLKTFWKGFTILDAIKNIRDSWEEVKLSTLTGVWKKLIPTLIDDYEGFKTS
VEEVSADVVEIAKELELEVEPEDVTELLQSHDKTLTDEELFLMDAQRKWFLEMESTPGEDAVNIVEMTTK
DLEYYINLVDKAAAGFERIDSNFERSSTVGKMLSNSIACYREIFHERKSQLMRKASPMSYFRKLPQPPQP
SAATTLTSQQPSTSRQDPPPAKRVRLTEGSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6339_c10.zip

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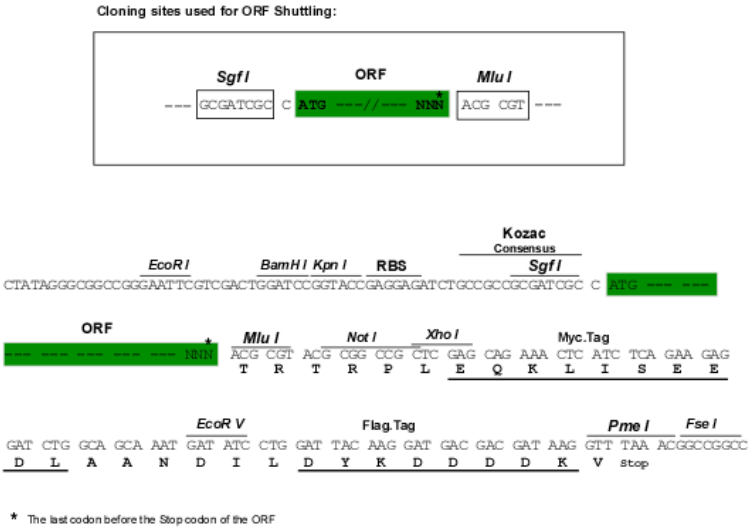
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145702

ORF Size: 1773 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_145702.4

RefSeq Size: 2448 bp

RefSeq ORF: 1776 bp

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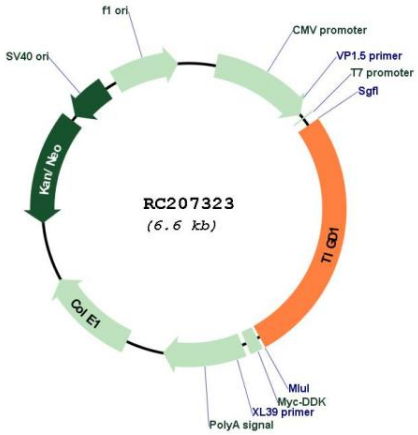
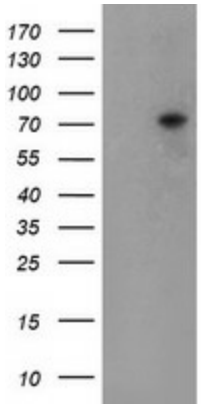
Locus ID:	200765
UniProt ID:	Q96MW7
Cytogenetics:	2q37.1
Domains:	DDE, CENPB, CENP-B_N
Protein Families:	Transcription Factors
MW:	67.2 kDa
Gene Summary:	The protein encoded by this gene belongs to the tigger subfamily of the pogo superfamily of DNA-mediated transposons in humans. These proteins are related to DNA transposons found in fungi and nematodes, and more distantly to the Tc1 and mariner transposases. They are also very similar to the major mammalian centromere protein B. The exact function of this gene is not known. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC207323



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TIGD1 (Cat# RC207323, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TIGD1(Cat# [TA800156]). Positive lysates [LY407903] (100ug) and [LC407903] (20ug) can be purchased separately from OriGene.

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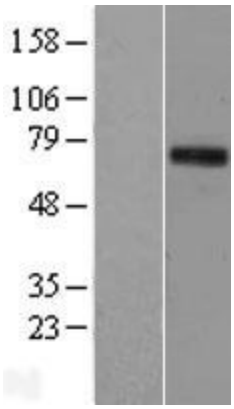

Western blot validation of overexpression lysate (Cat# [LY407903]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207323 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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