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Product datasheet for MR223248

Tbc1d2b (NM_194334) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbc1d2b (NM_194334) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbc1d2b
Synonyms:	1810061M12Rik; AI480956; AV021536; AV023399; AW491493; mKIAA1055
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR223248 representing NM_194334
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGGGGCCGGGGACGGCGTGGAGGAGAGCTGCAGTGGTGGTGAGGGAGCGGTACCGGGAACAGGCT
CGGAGGCTGGGGCGGTGGCGGGACGGGAGCCCTCGCGGCTGTGCGGCTACCTGCAGAAGCTGTCGGGCAA
GGGCCCGTTGCGCGGCTACCGCAGCCGCTGGTTCGTGTTTGACTCGCGCCGCTGCTACCTCTACTACTTC
AAGAGTCCCCAGGACGCTCTGCCGCTCGGCCACCTGGACATCGCCGACGCCTGCTTCAGCTACCAGGGCC
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TCCGTCCTGGGAGAGGGCACAGTGAGAGTCGCAGGACCGTGTTTTACACCAATGAAGAGTGGGAACTTCT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223248 representing NM_194334
Red=Cloning site Green=Tags(s)

MPGAGDGVEESCSGGEGAVPGTGSEAGAVAGREPSRLCGYLQKLSGKGPLRGYRSRWFVFDSRRCYLYYF
KSPQDALPLGHLDIADACFSYQGRDEAAEPGADPPTHFQVHSAGAVTVLKAPNRELMTYWLQELQQKRWE
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HPNPINFYSLKQWGNELKNSMSSFRPGRGHSESRRTVFYTNEEWELLDPPPKDLEESLVPEERKKPMPEG
SKGVASSGFPFEFGRNPYKGKRPLKDIIGSYKNRHSSSDPLLEGTATSSGSSGGPTKPVPEMQLQIQSQQ
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KESLQQEVRTLKSKVGELNERLGMLMETIQAKDEVIIKLSACEGSVSSPTLGPSSPLAIPASKDQLELDR
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GPARDVIAQLLEDALQVESQEQPEQAFVKPHLVSEFDIYGFRTVPDDDEEEKLVAKVRALDLKTLYLTDN
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ALEKQNPASKQIELDLLRTLPNNKHYSSPTSEGIQKLRSVLLAFSWRNPDIGYCQGLNRLVAVALLYLDQ
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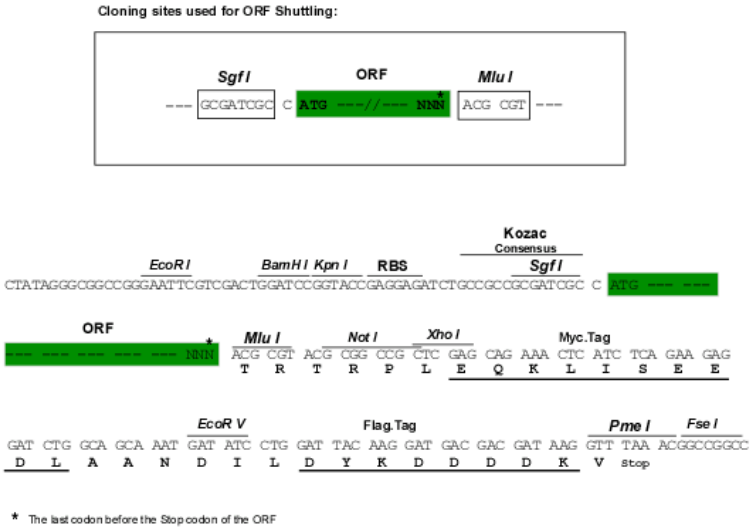
SVVSDILFKIWDSFLYEGPKVIFRFALALFKYKEEEILKLQDSMSIFKYLRYFTRTILDARKLISISFGD
LNPFPLRQIRNRRAYHLEKVRLELTELEAIREDFLRERDTSPDKGELVSDEEEDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9095_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_194334

ORF Size: 2895 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.

RefSeq: NM_194334.2, NP_919315.2

RefSeq Size: 5951 bp

RefSeq ORF: 2898 bp

Locus ID: 67016

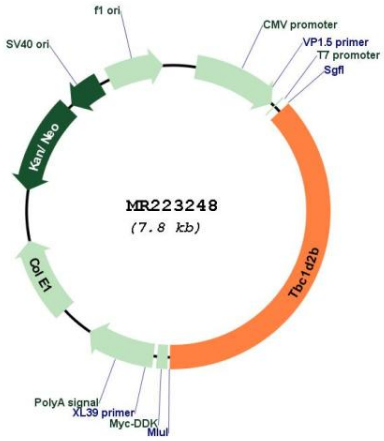
UniProt ID: Q3U0J8

Cytogenetics: 9 E3.1

MW: 109.9 kDa

Gene Summary: May act as a GTPase-activating protein.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223248