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Product datasheet for RC210346

TBC1D24 (NM_020705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D24 (NM_020705) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBC1D24
Synonyms:	DEE16; DFNA65; DFNB86; DOORS; EIEE16; EPRPDC; FIME; TLDC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC210346 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTCTCCAGGATACAACTGCTTCGTGGACAAAGACAAGATGGACGCTGCCATCCAGGACCTGGGGC
CCAAGGAGCTGAGCTGCACTGAACTGCAGGAACTGAAGCAGCTGGCGCGCCAGGGCTACTGGGCCCAAAG
CCACGCCCTGCGGGGAAAGGTGTACCAGCGCCTGATCCGGGACATTCCCTGCCGCACGGTCACGCCTGAC
GCCAGCGTGTACAGCGACATCGTGGGCAAGATCGTGGGCAAGCACAGCAGCAGCTGCCTGCCGCTGCCCG
AGTTCGTGGACAACACGCAGGTGCCCAGCTACTGCCTGAATGCACGCGGCGAGGGGGCCGTGCGCAAGAT
CCTCCTGTGCCTGGCCAACCAGTTCCCCGACATCTCCTTCTGCCCCGCCCTGCCGGCCGTGGTGGCCCTG
CTGCTGCACTACAGCATCGACGAGGCCGAGTGCTTCGAGAAGGCCTGCCGCATCCTGGCCTGCAATGACC
CCGGCAGGAGGCTGATCGACCAGAGCTTCCTGGCCTTTGAGTCGTCCTGCATGACGTTTGGGGACCTGGT
GAACAAGTACTGCCAGGCGGCCCACAAGCTGATGGTGGCCGTGTCGGAGGATGTCCTGCAGGTCTATGCG
GACTGGCAGCGCTGGCTGTTTGGGGAGCTGCCCCTCTGCTACTTCGCCCGGGTCTTTGACGTCTTCCTGG
TGGAGGGCTACAAGGTGCTGTACCGCGTGGCGCTGGCCATCCTCAAGTTCTTCCACAAGGTGAGGGCCGG
GCAGCCGCTGGAGTCGGACAGCGTGAAGCAGGACATCCGCACGTTCGTCAGAGACATCGCGAAGACGGTG
TCCCCTGAGAAGCTGCTGGAGAAAGCGTTCGCCATCCGCCTCTTCTCCCGCAAGGAGATCCAGCTCCTGC
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GGCCGTCCATGCAGAGAACTTCCGCTCGGAGATCGTCAGCGTGAGGGAGATGAGAGACATCTGGTCCTGG
GTCCCCGAGCGCTTTGCCCTGTGCCAGCCCCTTCTGCTGTTCTCCTCCCTGCAGCACGGGTACAGCCTGG
CCAGGTTCTACTTCCAGTGTGAAGGACATGAGCCTACCCTCTTGCTCATCAAGACCACGCAGAAGGAGGT
GTGTGGTGCTTACCTGTCCACAGACTGGAGTGAGAGAAATAAGTTTGGAGGCAAACTGGGCTTCTTTGGG
ACCGGAGAATGCTTTGTGTTTAGGCTGCAGCCTGAGGTGCAGCGCTACGAGTGGGTGGTGATCAAGCACC
CCGAGCTGACCAAGCCCCCACCCTTGATGGCTGCCGAGCCCACCGCCCCACTCAGCCACTCCGCCTCCTC
AGACCCCGCTGACCGCCTCTCGCCCTTCCTGGCCGCTCGCCACTTCAACCTGCCCTCCAAGACCGAGTCC
ATGTTCATGGCGGGGGGCAGCGACTGCCTCATCGTCGGGGGAGGAGGCGGCCAGGCGCTCTACATCGATG
GGGACCTGAACCGGGGCCGCACAAGCCACTGCGACACCTTCAACAACCAGCCCCTCTGCTCCGAGAACTT
CCTCATTGCTGCCGTGGAGGCCTGGGGCTTCCAGGACCCTGACACCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210346 protein sequence
Red=Cloning site Green=Tags(s)

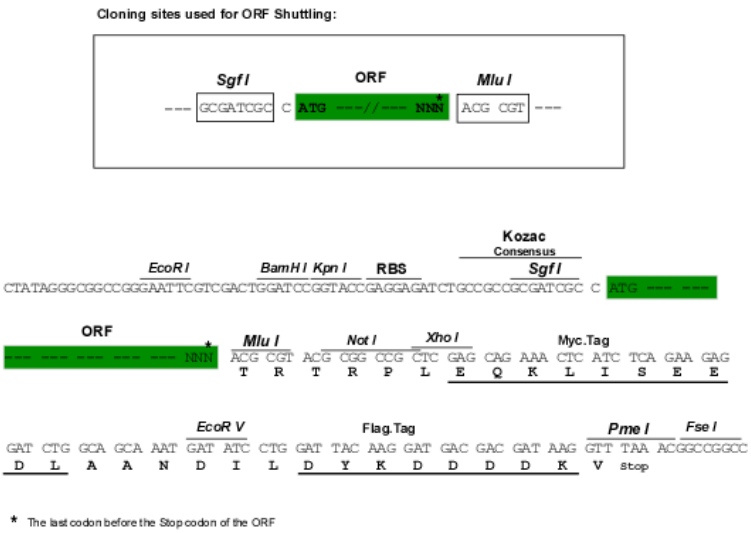
MDSPGYNCFVDKDKMDAAIQDLGPKELSCTELQELKQLARQGYWAQSHALRGKVYQRLIRDIPCRTVTPD
ASVYSDIVGKIVGKHSSSCLPLPEFVDNTQVPSYCLNARGEGAVRKILLCLANQFPDISFCPALPAVVAL
LLHYSIDEAECFEKACRILACNDPGRRLIDQSFLAFESSCMTFGDLVNKYCQAAHKLMVAVSEDVLQVYA
DWQRWLFGELPLCYFARVFDVFLVEGYKVLYRVALAILKFFHKVRAGQPLESDSVKQDIRTFVRDIAKTV
SPEKLLEKAFAIRLFSRKEIQLLQMANEKALKQKGITVKQKRQFVHLAVHAENFRSEIVSVREMRDIWSW
VPERFALCQPLLLFSSLQHGYSLARFYFQCEGHEPTLLLIKTTQKEVCGAYLSTDWSERNKFGGKLGFFG
TGECFVFRLQPEVQRYEWVVIKHPELTKPPPLMAAEPTAPLSHSASSDPADRLSPFLAARHFNLPSKTES
MFMAGGSDCLIVGGGGGQALYIDGDLNRGRTSHCDTFNNQPLCSENFLIAAVEAWGFQDPDTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6377_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020705

ORF Size: 1659 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_020705.3

RefSeq Size: 6589 bp

RefSeq ORF: 1662 bp

Locus ID: 57465

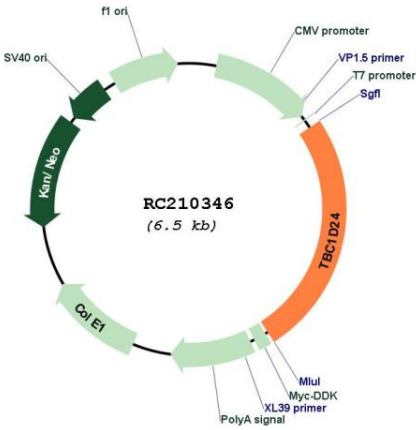
UniProt ID: Q9ULP9

Cytogenetics: 16p13.3

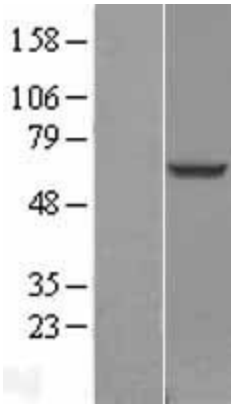
MW: 62.3 kDa

Gene Summary: This gene encodes a protein with a conserved domain, referred to as the TBC domain, characteristic of proteins which interact with GTPases. TBC domain proteins may serve as GTPase-activating proteins for a particular group of GTPases, the Rab (Ras-related proteins in brain) small GTPases which are involved in the regulation of membrane trafficking. Mutations in this gene are associated with familial infantile myoclonic epilepsy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2011]

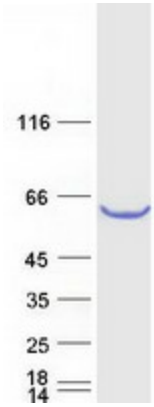
Product images:



Circular map for RC210346



Western blot validation of overexpression lysate (Cat# [LY412201]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210346 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TBC1D24 protein (Cat# [TP310346]). The protein was produced from HEK293T cells transfected with TBC1D24 cDNA clone (Cat# RC210346) using MegaTran 2.0 (Cat# [TT210002]).