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Product datasheet for RC205159

TBC1D16 (NM_019020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D16 (NM_019020) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBC1D16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205159 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTCTGGGCCGCCTCCTTCGCAGGGCCTCCTCCAAAGCCTCGGACCTCCTGACCCTCACCCCCGGTG
GCAGCGGCAGCGGGTCCCCCTCTGTCCTGGATGGAGAGATCATCTACTCCAAGAACAATGTCTGCGTGCA
CCCGCCGGAGGGGCTGCAGGGGCTGGGGGAGCACCACCCAGGTTACCTGTGCTTGTACATGGAGAAGGAT
GAGATGCTGGGAGCCACCCTCATCCTGGCATGGGTCCCCAACTCTCGCATCCAGAGGCAGGACGAGGAGG
CCCTGCGCTACATCACACCCGAGAGCTCCCCCGTTCGCAAGGCACCCCGCCCTCGGGGCCGGCGCACCCG
GAGCTCAGGAGCCTCCCACCAGCCCTCCCCGACGGAGCTGCGGCCTACCCTGACCCCCAAAGATGAGGAC
ATCCTGGTGGTGGCCCAGAGTGTTCCAGACCGCATGCTCGCCAGCCCTGCGCCAGAGGATGAGGAGAAGC
TGGCGCAGGGCTTGGGGGTGGATGGTGCCCAGCCAGCCTCGCAGCCTGCTTGCAGCCCCTCCGGGATCTT
GTCGACGGTCAGTCCGCAGGATGTCACCGAGGAGGGGCGGGAGCCGCGGCCCGAGGCCGGGGAGGAGGAT
GGCTCTTTGGAACTGTCAGCCGAGGGCGTGAGCAGAGACAGCTCCTTTGACTCAGACTCAGACACCTTCT
CCTCGCCCTTCTGCCTCTCGCCCATCAGCGCGGCGCTGGCCGAGAGCCGCGGCTCCGTGTTTCTGGAAAG
TGACAGCAGCCCCCCGTCCAGCTCCGACGCCGGCCTGCGGTTCCCGGACAGCAACGGCCTCCTGCAGACC
CCACGCTGGGACGAGCCGCAGCGGGTGTGCGCCCTGGAGCAGATTTGCGGCGTGTTCCGCGTGGACCTGG
GCCACATGCGCTCCCTCCGCCTTTTCTTCAGCGACGAGGCCTGCACCAGCGGCCAGCTGGTCGTTGCCAG
CCGAGAGAGCCAGTACAAGGTTTTCCACTTCCACCACGGCGGCCTGGACAAGCTGTCTGACGTGTTCCAG
CAGTGGAAATACTGCACCGAGATGCAGCTCAAAGACCAGCAGGTCGCCCCCGATAAGACATGCATGCAGT
TCTCCATCCGCCGCCCCAAGCTGCCGTCCTCCGAGACGCACCCCGAGGAGAGCATGTACAAGAGGCTCGG
CGTCTCCGCCTGGCTCAACCACCTGAATGAGCTGGGCCAGGTGGAGGAGGAGTACAAGCTGCGGAAGGCC
ATTTTCTTTGGCGGTATTGATGTGTCAATCCGCGGGGAGGTCTGGCCCTTCCTGCTGCGCTATTACAGCC
ACGAGTCCACGTCGGAGGAGCGGGAGGCGCTGCGGCTGCAGAAGCGAAAGGAGTACTCTGAGATCCAGCA
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GACGTGGTCCGGACAGATCGGAACAACCAGTTCTTCCGGGGGGAAGACAATCCCAATGTGGAGAGCATGA
GGAGGATCCTGCTGAACTACGCCGTGTACAACCCTGCCGTCGGCTATTCCCAAGGGATGTCGGACCTGGT
GGCGCCCATCTTGGCCGAGGTCCTGGATGAGTCAGACACCTTCTGGTGCTTTGTGGGTTTGATGCAGAAC
ACGATCTTCGTCAGCTCACCCCGGGACGAGGACATGGAGAAACAACTGCTGTACCTGCGCGAGCTGCTGC
GGCTGACGCACGTGCGCTTCTACCAGCACCTGGTCTCGCTGGGCGAGGACGGCCTGCAGATGCTCTTCTG
CCACCGCTGGCTCCTTCTGTGCTTCAAGCGGGAGTTCCCCGAGGCCGAAGCGCTGCGGATCTGGGAGGCC
TGCTGGGCCCACTACCAGACGGACTACTTCCACCTTTTCATCTGCGTGGCCATCGTGGCCATCTACGGGG
ATGACGTCATCGAGCAGCAGCTGGCCACGGACCAGATGCTCCTGCACTTCGGAAACCTGGCCATGCACAT
GAACGGGGAGCTCGTTCTCCGGAAGGCGAGGAGTTTGCTGTACCAGTTCCGCCTCCTGCCCCGGATCCCC
TGCAGCCTGCACGATCTGTGTAAGCTGTGCGGGTCAGGCATGTGGGACAGCGGCTCCATGCCCGCGGTGG
AGTGCACCGGCCACCATCCCGGCTCGGAGAGCTGTCCCTACGGGGGCACGGTGGAGATGCCTTCCCCCAA
GTCCCTGAGGGAAGGCAAGAAGGGCCCAAAGACGCCGCAGGACGGCTTCGGCTTCCGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205159 protein sequence
Red=Cloning site Green=Tags(s)

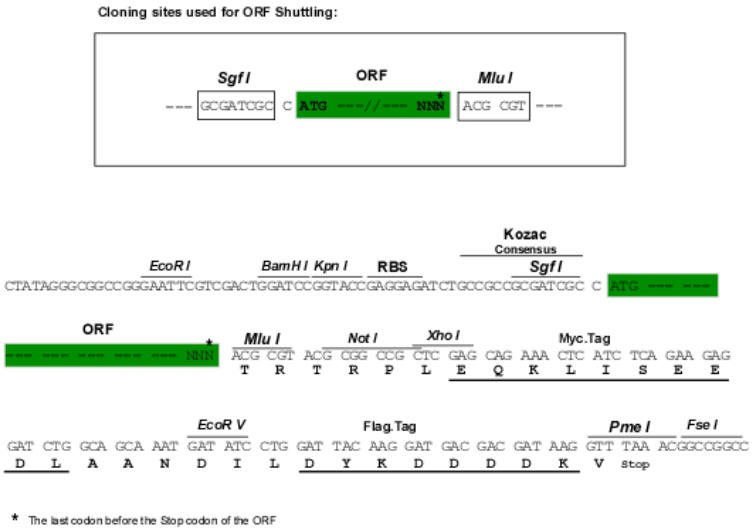
MSLGRLLRRASSKASDLLTLTPGGSGSGSPSVLDGEIIYSKNNVCVHPPEGLQGLGEHHPGYLCLYMEKD
EMLGATLILAWVPNSRIQRQDEEALRYITPESSPVRKAPRPRGRRTRSSGASHQPSPTELRPTLTPKDED
ILVVAQSVPDRMLASPAPEDEEKLAQGLGVDGAQPASQPACSPSGILSTVSPQDVTEEGREPRPEAGEED
GSLELSAEGVSRDSSFDSDSDTFSSPFCLSPISAALAESRGSVFLESDSSPPSSSDAGLRFPDSNGLLQT
PRWDEPQRVCALEQICGVFRVDLGHMRSLRLFFSDEACTSGQLVVASRESQYKVFHFHHGGLDKLSDVFQ
QWKYCTEMQLKDQQVAPDKTCMQFSIRRPKLPSSETHPEESMYKRLGVSAWLNHLNELGQVEEEYKLRKA
IFFGGIDVSIRGEVWPFLLRYYSHESTSEEREALRLQKRKEYSEIQQKRLSMTPEEHRAFWRNVQFTVDK
DVVRTDRNNQFFRGEDNPNVESMRRILLNYAVYNPAVGYSQGMSDLVAPILAEVLDESDTFWCFVGLMQN
TIFVSSPRDEDMEKQLLYLRELLRLTHVRFYQHLVSLGEDGLQMLFCHRWLLLCFKREFPEAEALRIWEA
CWAHYQTDYFHLFICVAIVAIYGDDVIEQQLATDQMLLHFGNLAMHMNGELVLRKARSLLYQFRLLPRIP
CSLHDLCKLCGSGMWDSGSMPAVECTGHHPGSESCPYGGTVEMPSPKSLREGKKGPKTPQDGFGFRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6522_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_019020

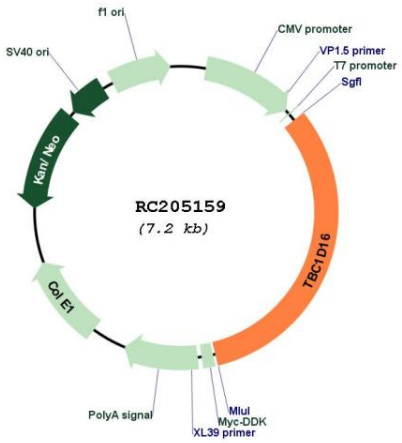
ORF Size: 2301 bp

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

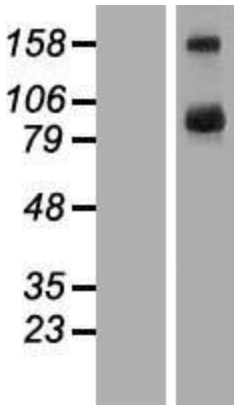
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_019020.4
RefSeq Size:	10956 bp
RefSeq ORF:	2304 bp
Locus ID:	125058
UniProt ID:	Q8TBP0
Cytogenetics:	17q25.3
MW:	86.4 kDa
Gene Summary:	May act as a GTPase-activating protein for Rab family protein(s).[UniProtKB/Swiss-Prot Function]

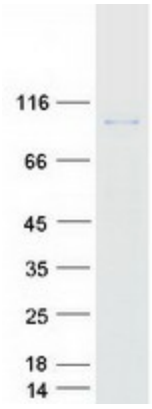
Product images:



Circular map for RC205159



Western blot validation of overexpression lysate (Cat# [LY412812]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205159 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TBC1D16 protein (Cat# [TP305159]). The protein was produced from HEK293T cells transfected with TBC1D16 cDNA clone (Cat# RC205159) using MegaTran 2.0 (Cat# [TT210002]).