

Product datasheet for **RC201927**

TBCE (NM_003193) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBCE (NM_003193) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBCE
Synonyms:	HRD; KCS; KCS1; pac2; PEAMO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201927 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGACACTTTGACAGCGGATGTCATTGGTCAAGAGTTGAAGTTAATGGAGAACATGCAACAGTAC
 GTTTTGCTGGTGTGTCCCTCCCGTGGCAGGACCTGGTTAGGAGTAGAATGGGACAATCCCGAGAGAGG
 AAAGCATGATGGGAGCCACGAAGGACTGTGTATTTTAAATGCAGGCACCCGACAGGAGGATCCTTTATT
 CGTCCGAACAAGGTAAATTTTGAACAGACTTTCTTACTGCAATTAAGAACCCTATGTGTTAGAAGATG
 GACCAGAGGAAGATAGAAAAGAGCAAAATGTTACAATTGGAAATAAACCTGTGGAGACTATCGGTTTTGA
 CTCTATTATGAACAGCAAAAGTCAGCTGAGCAAGTTGCAAGAAGTTTCTCTGAGGAAGTGTGCAAGT
 TGTGCTGGTGA AAAAGGAGGAGTTGCTGAAGCATGTCCTAATATCAGAAAGGTAGATTTGTCAAAAAACC
 TGTTGTCATCATGGGATGAAGTGATACACATTGCTGATCAGCTCAGACACCTGGAAGTCCTTAATGTCAG
 TGA AAATAAACTAAAATTTCCCTCCGGTTCAGTATTAAGTGAACGCTTTCTGTACTGAAGGTTTTAGTC
 CTCAATCAACAGGAATAACGTGGGCTGAGGTGCTGCGGTGTGTCGCGGGGTGCCAGGCCCTGGAGGAAC
 TCTACCTTGAGTCTAACACATTTTCATTTCCGAAAGGCCAACAGATGTTCTCCAGACAGTCAAGTTATT
 AGATCTTTCCTCTAATCAATTAATTGATGAAAATCAGCTGTATCTGATAGCCACCTGCCAGGTTAGAA
 CAATTAATCCTCTCTGACACTGGAATTTCTTCTACATTTTCCGGATGCTGGAATTGGGTGCAAAACGT
 CCATGTTCCCATCCTTGAAGTACCTGGTAGTAAACGACAATCAGATATCACAATGGTCGTTTTCAATGA
 GCTAGAGAAGTTACCAAGTCTACGGGCTTTGTCTGCCTAAGAAACCCCTGACCAAGAGGACAAAAGAA
 GCAGAGACGGCGGACTACTCATTATCGCCAGCATTGGCCAGCTGAAGACGCTGAACAAATGTGAGATTC
 TCCCCGAGGAGAGCGGAGAGCTGAGCTTGACTACCGAAAAGCTTTTGGAAATGAGTGGAAACAGGCTGG
 TGGACATAAGGATCCGGAAAAAACAGACTCAGCGAAGAATTCTCACAGCCCATCCAGATACCAAGTTC
 CTCTGCCTGAAATATGGTGCACCTGAAGATTGGGAACTCAAAACACAGCAACCACTTATGCTGAAAAACC
 AGCTACTAACACTGAAGATAAAATACCCTCATCAACTTGATCAGAAAGTCTGGAGAAACAACTGCCGGG
 CTCCATGACAATTCAAAAGGTGAAGGGATTGCTGTACGCTCTTCTCAAAGTTCTGTGTGACACCTTCTG
 TTGTCTATGAAAGTCCCAAAAGCCGGGCAGAGAAATCGAGCTGGAAATGACCTAAAGTCATTACAGT
 TTTATTCTGTGAAAAATGGAGATTGTCTATTAGTGCATGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201927 protein sequence
 Red=Cloning site Green=Tags(s)

MSDTLTADVIGRRVEVNGEHATVRFAGVPPVAGPWLGVWDNPERGKHDSHEGTVYFKCRHPTGGSFI
 RPNKVNFGTDFLTAIKNRYVLEDGPEEDRKEQIVTIGNKPVETIGFDSIMKQSQLSKLQEVSLRNCVAVS
 CAGEKGGVAEACPNIRKVDLSKNLLSSWDEVIIHADQLRHLEVLNVSENKLKFPSSGVLGTLSVLKVLV
 LNQTGITWAEVLRVAGCPGLEELYLESNNIFISERPTDVLQTVKLLDLSSNQLIDENQLYLIAHLPRLE
 QLILSDTGISLHFPDAGIGCKTSMFSLKYLVVNDNQISQWSFFNELEKLPSLRALSCLRNPLTKEDKE
 AETARLLIIASIGQLKTLNKCEILPEERRRAELDYRKAFGNEWKQAGGHKDPEKNRLSEEFHTAHPRYQF
 LCLKYGAPEDWELKTQQPLMLKNQLLTLKIKYPHQLDQKVLEKQLPGSMTIQKVGLLSRLKVPVSDLL
 LSYESPKKPGREIELENDLKSQFYSEVNGDCLLVRW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6302_f03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003193

ORF Size: 1581 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_003193.5](#)

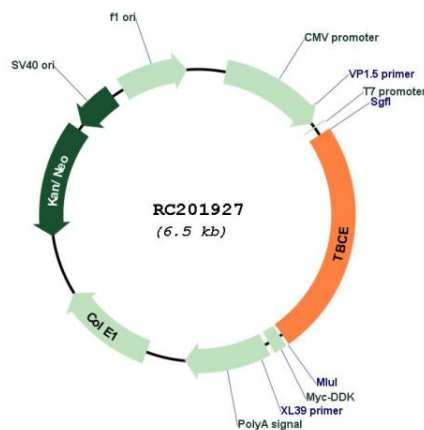
RefSeq Size: 1977 bp

RefSeq ORF: 1584 bp

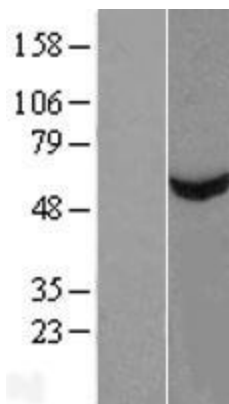
Locus ID: 6905

UniProt ID:	<u>Q15813</u>
Cytogenetics:	1q42.3
Domains:	CAP_GLY, LRR
Protein Families:	Druggable Genome
MW:	59.3 kDa
Gene Summary:	Cofactor E is one of four proteins (cofactors A, D, E, and C) involved in the pathway leading to correctly folded beta-tubulin from folding intermediates. Cofactors A and D are believed to play a role in capturing and stabilizing beta-tubulin intermediates in a quasi-native confirmation. Cofactor E binds to the cofactor D/beta-tubulin complex; interaction with cofactor C then causes the release of beta-tubulin polypeptides that are committed to the native state. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

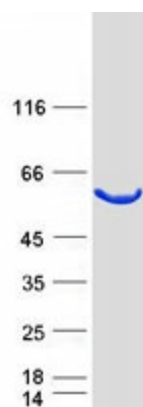
Product images:



Circular map for RC201927



Western blot validation of overexpression lysate (Cat# [LY421507]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC214027] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TBCE protein (Cat# [TP301927]). The protein was produced from HEK293T cells transfected with TBCE cDNA clone (Cat# RC201927) using MegaTran 2.0 (Cat# [TT210002]).