

Product datasheet for **RG201927**

TBCE (NM_003193) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBCE (NM_003193) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBCE
Synonyms:	HRD; KCS; KCS1; pac2; PEAMO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201927 representing NM_003193
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGACACTTTGACAGCGGATGTCATTGGTCAAGAGTTGAAGTTAATGGAGAACATGCAACAGTAC
 GTTTTGCTGGTGTGTCCCTCCCGTGGCAGGACCTGGTTAGGAGTAGAATGGGACAATCCCGAGAGAGG
 AAAGCATGATGGGAGCCACGAAGGGACTGTGTATTTTAAATGCAGGCACCCGACAGGAGGATCCTTTATT
 CGTCCGAACAAGGTAAATTTTGGAAACAGACTTTCTACTGCAATTAAGAACCCTATGTGTAGAAAGATG
 GACCAGAGGAAGATAGAAAAGAGCAAATTTGTTACAATTGGAAATAAACCTGTGGAGACTATCGGTTTTGA
 CTCTATTATGAAACAGCAAAGTCAGCTGAGCAAGTTGCAAGAAGTTTCTCTGAGGAACTGTGCAGTAAGT
 TGTGCTGGTGA AAAAGGAGGAGTTGCTGAAGCATGTCCTAATATCAGAAAGGTAGATTTGCAAAAAACC
 TGGTGTGTCATCATGGGATGAAGTGATACACATTGCTGATCAGCTCAGACACCTGGAAGTCCTAATGTCAG
 TGAATAAACTAAAATTTCCCTCCGGTTCAGTATTAAGTGAACGCTTTCTGTACTGAAGTTTTAGTC
 CTAATCAAACAGGAATAACGTGGGCTGAGGTGCTGCGGTGTGTCGCGGGGTGCCAGGCCCTGGAGGAAC
 TCTACCTTGAGTCTAACACATTTTCATTTCCGAAAGGCCAACAGATGTTCTCCAGACAGTCAAGTTATT
 AGATCTTCTCTAATCAATTAATTGATGAAAAACAGCTGTATCTGATAGCCACCTGCCAGGTTAGAA
 CAATTAATCCTCTCTGACACTGGAATTTCTTCTACATTTTCCGGATGCTGGAATTTGGGTGCAAAACGT
 CCATGTTCCCATCCTTGAAGTACCTGGTAGTAAACGACAATCAGATATCACAATGGTCGTTTTCAATGA
 GCTAGAGAAGTTACCAAGTCTACGGGCTTTGCTCCTGCCTAAGAAACCCCTGACCAAAGAGGACAAAAGAA
 GCAGACGCGCGGACTACTCATTATCGCCAGCATTGGCCAGCTGAAGACGCTGAACAAATGTGAGATTC
 TCCCGGAGGAGCGGAGAGCTGAGCTTGACTACCGAAAAGCTTTTGGAAATGAGTGGAAACAGGCTGG
 TGGACATAAGGATCCGGAAAAAACAGACTCAGCGAAGAATTCCTCACAGCCCATCCAGATACCAAGTTC
 CTCTGCCTGAAATATGGTGCACCTGAAGATTGGGAACTCAAAACACAGCAACCCTATGCTGAAAAACC
 AGCTACTAACACTGAAGATAAAATACCCTCATCAACTTGATCAGAAAGTCTGGGAAACAACTGCCGGG
 CTCCATGACAATTCAAAAGGTGAAGGGATTGCTGTACAGTCTTCTCAAAGTTCCTGTGTGACACCTTCTG
 TTGTCCTATGAAAGTCCCAAAAAGCCGGGCAGAGAAATCGAGCTGGAAAATGACCTAAAGTCATTACAGT
 TTTATTCTGTGAAAAATGGAGATTGTCTATTAGTGGGATGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201927 representing NM_003193
 Red=Cloning site Green=Tags(s)

MSDTLTADVIGRRVEVNGEHATVRFAGVPPVAGPWLGVWDNPERGKHDGSHEGTVYFKCRHPTGGFSI
 RPNKVNFGTDFLTAIKNRYVLEDGPEEDRKEQIVTIGNKPVETIGFDSIMKQQSQLSKLQEVSLRNCAVS
 CAGEKGGVAEACPNIRKVDL SKNLLSSWDEVIHIA DQLRHLEVLNVSENKLFPSGSVLTGTL SVLKVLV
 LNQTGITWAEVLRVAGCPGLEELYLESNNIFISERPTDVLQTVKLLDLSSNQLIDENQLYLIAHLPRLE
 QLILSDTGISLHFPDAGIGCKTSMFPSLKYLVVNDNQISQWSFFNELEKLP SLRAL SCLRNP LTKEDKE
 AETARLLIIASIGQLKTLNKCEILPEERRRAELDYRKAFGNEWKQAGGHKDPEKNR LSEEF LTAHPRYQF
 LCLKYGAPEDWELKTQQPLMLKNQLLTLKIKYPHQLDQKVLKQLPGSMTIQKVKGLLRLLKVPVSDLL
 LSYESPKKPGREIELENDLKS LQFYSVENGDCLLV RW

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_003193.5](#)

RefSeq Size: 1925 bp

RefSeq ORF: 1584 bp

Locus ID: 6905

UniProt ID: [Q15813](#)

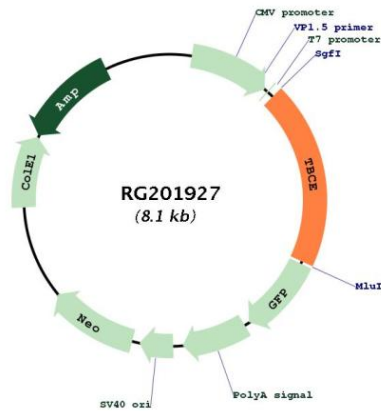
Cytogenetics: 1q42.3

Domains: CAP_GLY, LRR

Protein Families: Druggable Genome

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 RG201927