

Product datasheet for **RG238966**

TBCE (NM_001287801) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBCE (NM_001287801) 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:

>RG238966 representing NM_001287801.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGTGACACTTTGACAGCGGATGTCATTGGTGAAGAGTTGAAGTTAATGGAGAACATGCAACAGTA
CGTTTTGCTGGTGTGTCCCTCCCGTGGCAGGACCCCTGGTTAGGAGTAGAATGGGACAATCCCGAGAGA
GGAAAGCATGATGGGAGCCACGAAGGGACTGTGTATTTTAAATGCAGGCACCCGACAGGAGGATCCTTT
ATTCGTCCGAACAAGGTAATTTTGAACAGACTTTTCTTACTGCAATTAAGAACCCTATGTGTTAGAA
GATGGACCAGAGGAAGATAGAAAAGAGCAAATTGTTACAATTGAAATAAACCTGTGGAGACTATCGGT
TTTGACTCTATTATGAAACAGCAAAGTCAGCTGAGCAAGTTGCAAGAAGTTTCTCTGAGGAACTGTGCA
GTAAGTTGTGCTGGTAAAAAGGAGGAGTTGCTGAAGCATGTCCTAATATCAGAAAGGTAGATTTGTCA
AAAAACCTGTTGTCATCATGGGATGAAGTGATACACATTGCTGATCAGCTCAGACACCTGGAAGTCCTT
AATGTCAGTGAATAAACTAAAATTTCCCTCCGGTTCAGTATTAAGTGAACGCTTTCTGTACTGAAG
GTTTTAGTCTCAATCAAACAGGAATAACGTGGGCTGAGGCTCATGCGCAGTGTGGTGGCAGCAGGCAC
GGTCTCGACATGCAGAAAGACGCCAGCAAGTTCGTGGATCTGTGCGTGTGCAGAAATGCTCCACCAGC
AACTGCATCATCAGTGCCAAGGACCACACATCCATGCGGATGAACGTGGCCAAGGTGCTGCGGTGTGTC
GCGGGGTGCCAGGCCTGGAGGAACCTACCTTGAGTCTAACCAATTTTCATTTCCGAAAGGCCAACA
GATGTTCTCCAGACAGTCAAGTTATTAGATCTTTCCTCTAATCAATTAATTGATGAAAAATCAGCTGTAT
CTGATAGCCACCTGCCAGGTTAGAACAATTAATCCTCTCTGACACTGGAATTTCTTCTACATTTT
CCGGATGCTGGAATTGGGTGCAAAACGTCCATGTTCCCATCCTTGAAGTACCTGGTAGTAAACGACAAT
CAGATATCACAATGGTCGTTTTTCAATGAGCTAGAGAAGTTACCAAGTCTACGGGCTTTGTCCTGCCTA
AGAAACCCCTGACCAAAGAGGACAAAGAAGCAGAGACGGCGGACTACTATTATCGCCAGCATTTGGC
CAGCTGAAGACGCTGAACAAATGTGAGATTCTCCCGAGGAGAGGCGGAGAGCTGAGCTTGACTACCGA
AAAGCTTTTGAATGAGTGAACAGGCTGGTGGACATAAGGATCCGGAACAAAAACAGACTCAGCGAA
GAATTCCTCACAGCCATCCCAGATACCAGTTCCTCTGCCTGAAATATGGTGCACCTGAAGATTGGGAA
CTCAAAACACAGCAACCCTTATGCTGAAAAACAGCTACTAACACTGAAGATAAAATACCTCATCAA
CTTGATCAGAAAGTCTGGAGAAACAACGCGGGCTCCATGACAATTCAAAAGGTGAAGGGATTGCTG
TCACGTCTTCTCAAAGTCTCTGTGTCAGACCTTCTGTTGCTATGAAAGTCCAAAAAGCCGGGCAGA
GAAATCGAGCTGAAAAATGACCTAAAGTACATGTTTTATTCTGTGAAAAATGGAGATTGTCTATTA
GTGCGATGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238966
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MSDTLTADVIGRRVEVNGEHATVRFAGVVPVAGPWLGVWDNPERGKHDSHEGTVYFKCRHPTGGSF
IRPNKVNFGTDFLTAIKNRYVLEDGPEEDRKEQIVTIGNPKVETIGFDSIMKQSQLSKLQEVSLRNCA
VSCAGEKGGVAEACPNIKVDLSKNLLSSWDEVIIHADQLRHLEVLNVSENKLFKPSGSLVTGTLVSLK
VLVLNQGTITWAEAHAQCGGSRHGLDMQKDASKFVDLCVLQKQKSTSNCIISAKDHTSMRMNVAKVLRV
AGCPGLEELYLESNNIFISERPTDVLQTVKLLDLSSNQLIDENQLYLIAHLPRLEQLILSDTGISLHF
PDAGIGCKTSMFPSLKYLVVNDNQISQWSFFNELEKPLSLRALSLRNPLTKEDKEAETARLLIIASIG
QLKTLNKCEILPEERRRAELDYRKAFGNEWKQAGGHKDPKRNLEEFHTAHPRYQFLCLKYGAPEDWE
LKTQQLMLKNQLLTLKIKYPHQLDQVLEKQLPGSMTIQKVKGLLSRLKVPVSDLLLSYSPKKPGR
EIELENDLKSQFYFVSVGDCLLVRW
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001287801

ORF Size: 1734 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).

RefSeq: [NM_001287801.2](#)

RefSeq Size: 2130 bp

RefSeq ORF: 1737 bp

Locus ID: 6905

UniProt ID: [Q15813](#)

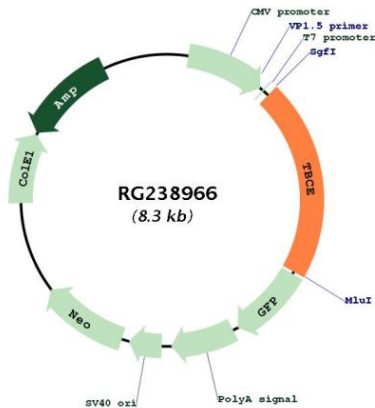
Cytogenetics: 1q42.3

Protein Families: Druggable Genome

MW: 65.3 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 RG238966