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# Product datasheet for RG214027

## TBCE (NM_001079515) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **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:**

>RG214027 representing NM_001079515
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGACACTTTGACAGCGGATGTCATTGGTCGAAGAGTTGAAGTTAATGGAGAACATGCAACAGTAC
GTTTTGCTGGTGTTGTCCCTCCCGTGGCAGGACCCTGGTTAGGAGTAGAATGGGACAATCCCGAGAGAGG
AAAGCATGATGGGAGCCACGAAGGGACTGTGTATTTTAAATGCAGGCACCCGACAGGAGGATCCTTTATT
CGTCCGAACAAGGTAAATTTTGGAACAGACTTTCTTACTGCAATTAAGAACCGCTATGTGTTAGAAGATG
GACCAGAGGAAGATAGAAAAGAGCAAATTGTTACAATTGGAAATAAACCTGTGGAGACTATCGGTTTTGA
CTCTATTATGAAACAGCAAAGTCAGCTGAGCAAGTTGCAAGAAGTTTCTCTGAGGAACTGTGCAGTAAGT
TGTGCTGGTGAAAAAGGAGGAGTTGCTGAAGCATGTCCTAATATCAGAAAGGTAGATTTGTCAAAAAACC
TGTTGTCATCATGGGATGAAGTGATACACATTGCTGATCAGCTCAGACACCTGGAAGTCCTTAATGTCAG
TGAAAATAAACTAAAATTTCCCTCCGGTTCAGTATTAACTGGAACGCTTTCTGTACTGAAGGTTTTAGTC
CTCAATCAAACAGGAATAACGTGGGCTGAGGTGCTGCGGTGTGTCGCGGGGTGCCCAGGCCTGGAGGAAC
TCTACCTTGAGTCTAACAACATTTTCATTTCCGAAAGGCCAACAGATGTTCTCCAGACAGTCAAGTTATT
AGATCTTTCCTCTAATCAATTAATTGATGAAAATCAGCTGTATCTGATAGCCCACCTGCCCAGGTTAGAA
CAATTAATCCTCTCTGACACTGGAATTTCTTCTCTACATTTTCCGGATGCTGGAATTGGGTGCAAAACGT
CCATGTTCCCATCCTTGAAGTACCTGGTAGTAAACGACAATCAGATATCACAATGGTCGTTTTTCAATGA
GCTAGAGAAGTTACCAAGTCTACGGGCTTTGTCCTGCCTAAGAAACCCCCTGACCAAAGAGGACAAAGAA
GCAGAGACGGCGCGACTACTCATTATCGCCAGCATTGGCCAGCTGAAGACGCTGAACAAATGTGAGATTC
TCCCCGAGGAGAGGCGGAGAGCTGAGCTTGACTACCGAAAAGCTTTTGGAAATGAGTGGAAACAGGCTGG
TGGACATAAGGATCCGGAAAAAAACAGACTCAGCGAAGAATTCCTCACAGCCCATCCCAGATACCAGTTC
CTCTGCCTGAAATATGGTGCACCTGAAGATTGGGAACTCAAAACACAGCAACCACTTATGCTGAAAAACC
AGCTACTAACACTGAAGATAAAATACCCTCATCAACTTGATCAGAAAGTCCTGGAGAAACAACTGCCGGG
CTCCATGACAATTCAAAAGGTGAAGGGATTGCTGTCACGTCTTCTCAAAGTTCCTGTGTCAGACCTTCTG
TTGTCCTATGAAAGTCCCAAAAAGCCGGGCAGAGAAATCGAGCTGGAAAATGACCTAAAGTCATTACAGT
TTTATTCTGTGGAAAATGGAGATTGTCTATTAGTGCGATGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

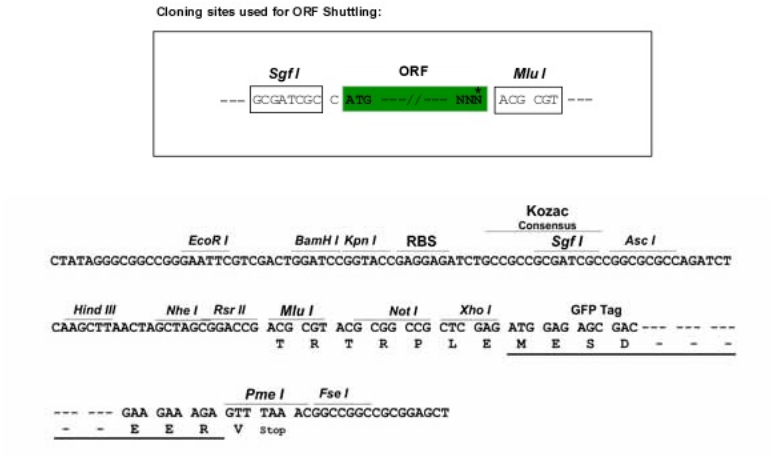
>RG214027 representing NM_001079515
Red=Cloning site Green=Tags(s)

MSDTLTADVIGRRVEVNGEHATVRFAGVVPPVAGPWLGVEWDNPERGKHDGSHEGTVYFKCRHPTGGSFI
RPNKVNFGTDFLTAIKNRYVLEDGPEEDRKEQIVTIGNKPVETIGFDSIMKQQSQLSKLQEVSLRNCAVS
CAGEKGGVAEACPNIRKVDLSKNLLSSWDEVIHIADQLRHLEVLNVSENKLKFPSGSVLTGTLSVLKVLV
LNQTGITWAEVLRCVAGCPGLEELYLESNNIFISERPTDVLQTVKLLDLSSNQLIDENQLYLIAHLPRLE
QLILSDTGISSLHFPDAGIGCKTSMFPSLKYLVVNDNQISQWSFFNELEKLPSLRALSCLRNPLTKEDKE
AETARLLIIASIGQLKTLNKCEILPEERRRAELDYRKAFGNEWKQAGGHKDPEKNRLSEEFLTAHPRYQF
LCLKYGAPEDWELKTQQPLMLKNQLLTLKIKYPHQLDQKVLEKQLPGSMTIQKVKGLLSRLLKVPVSDLL
LSYESPKKPGREIELENDLKSLQFYSVENGDCLLVRW

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_001079515

**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_001079515.3

**RefSeq Size:** 1973 bp

**RefSeq ORF:** 1584 bp

**Locus ID:** 6905

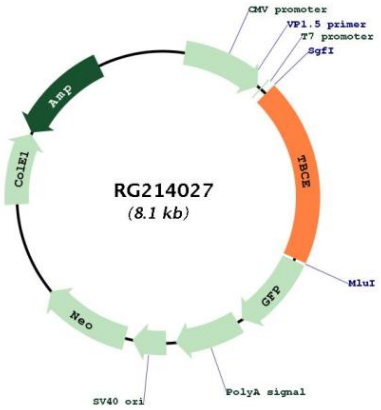
**UniProt ID:** Q15813

**Cytogenetics:** 1q42.3

**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 RG214027