

Product datasheet for **RG229306**

KBTBD8 (NM_032505) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KBTBD8 (NM_032505) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KBTBD8
Synonyms:	TA-KRP; TAKRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG229306 representing NM_032505
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCGTCGGCAGATTTAAGTAAGTCTTCCCCAACACCGAATGGGATTCCATCTTCAGACCCAGCCA
 GCGATGCCATGGACCCCTTCCATGCTTGCAGTATTCTTAAGCAACTCAAAACAATGTACGATGAAGGACA
 GTTGACAGACATTGTAGTGGAAGTGATCAGGGAAAAACATTTTCTGTATAGAAACGTTCTTGCTGCA
 ATCAGCCCTTACTTCAGATCCATGTTCACTAGCGGCCTTACAGAAAGTACTCAAAAAGAAGTTCGAATAG
 TTGGTGTGAAGCTGAATCGATGGATTTAGTGTGAAGTATGCCTACACTTCCAGAGTTATTCTTACAGA
 GGCCAATGTTCAAGCCTTGTTCACTGCAGCTAGCATCTTCCAGATTCTTCCATCCAAGACCAATGTGCT
 AAGTATATGATCAGTCATTTGGACCCACAGAATTCATTGGGGTCTTTATCTTTGCTGATCATTATGGTC
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 GTTTCTCCAGTTGACAAAAGACCAACTGATAAGTATACTAGACAGTGACGATTTAAATGTAGACCGAGAA
 GAGCATGTTTATGAAAGCATTATAAGGTGGTTGAGCATGAACAGAATGAAAGAGAAGTGCACCTTCCAG
 AAATTTTGTCTAAATGCATACGTTTTCTCTGATGGAAGATACCTTTATAGAGAAAATTCACCTCAGTT
 TGCACAGGCTATAGCCAAAAGCTGTGTAGAAAAGGGACCATCAACACCAATGGCTGTACACAGAGGCTT
 GGAATGACTGCTTCTGAAATGATCATATGTTTTGATGCTGCCACAAACACTCAGGAAAGAAGCAAAACAG
 TGCCTTGCTAGATATAGTCACAGGAAGGGTGTAAACTATGCAAAACCAAAATGACCTGAGAGAAGT
 TGGGATCTTGATCACCAGATAATGACATTTACATTGCAGGAGGGTACAGGCCAAGCAGCAGTGAGGTC
 TCCATCGACCATAAGGCAGAAAATGATTTCTGGATGTATGATCATTCCACCAATAGATGGCTATCCAAAC
 CATCCTTGCTTCGAGCCAGAATAGGCTGCAAACTTGCTATTGCTGTGGTAAAATGTATGCAATCGGAGG
 TCGTGTGTTATGAAGGTGATGGGAGAACTCACTAAAATCTGTTGAGTGCTACGACAGTAGAGAGAATTGT
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 ATGTTTTACAGGAGAATTTTTCTCTTCTATGAGCCTCAAAAAGACTACTGGGGTTTCTTAACCCCAT
 GACTGTGCTAGAAATCCAGGGCTTAGCAGCTGTATACAAGGACTCTATCTACTACATAGCTGGAACCTGT
 GGAAATCATCAACGTATGTTTACTGTAGAAGCCTATGATATTGAGCTAAATAATGGACTCGTAAGAAAG
 ACTTTCCATGTGATCAGTCCATAAATCCATACCTTAACTGGTACTTTTCCAGAACAAATCCATTTATT
 TGTTGAGCTACTCAAGTACTGTTGAAGAACAGTCTTCAGAACAGCAGAAAAAATCCCTTTACCAA
 TATGATGACATTGCTGACCAGTGGATGAAAGTGTATGAGACCCAGATCGGCTCTGGGACCTTGGCCGGC
 ATTTTGAATGTGCTGTTGCTAACTGTATCCTCAGTGTCTTCAGAAAGTACTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

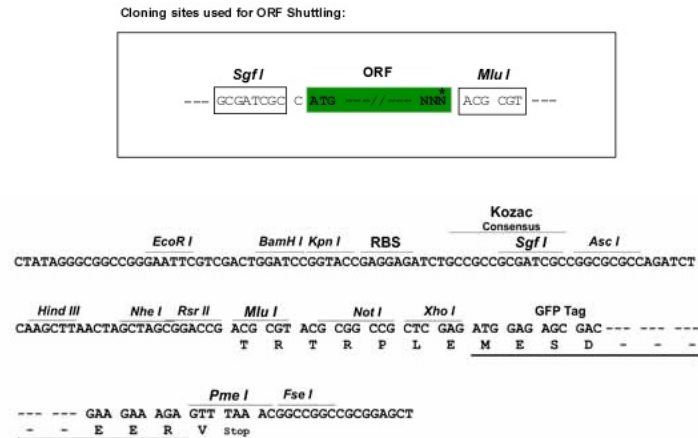
>RG229306 representing NM_032505
 Red=Cloning site Green=Tags(s)

MAASADLSKSSPTPNGIPSSDPASDAMPFHACCSILKQLKTMDEGQLTDIVVEVDHGKTFSCHRNVLAA
 ISPYFRSMFTSGLTESTQKEVRIVGVEAESMDLVNAYTSRVILTEANVQALFTAASIFQIPSIQDQCA
 KYMISHLDPQNSIGVFIADHYGHQELGDRSKEYIRKKFLCVTKEQEFLLTKDQLISILSDDLNVDRE
 EHVVESIIRWFEHEQNEREVHLPEIFAKCIRFPLMEDTFIEKIPPQFAQAIKSCVEKGPSNTNGCTQRL
 GMTASEMIICFDAHKHSGKKQTPCLDIVTGRVFKLCKPPNDLREVILVSPDNDIYIAGGYRPSSEV
 SIDHKAENDFWMYDHSTNRWLSKPSLLRARIGCKLVYCCGKMYAIGGRVYEGDGRNSLSVECYDSRENC
 WTTVCAMPVAMEFHNAVEYKEKIYVLQGEFFLFYEPQKDYWGFLTPMTVPRIQGLAAVYKDSIYYIAGTC
 GNHQRMFTVEAYDIELNKWTRKKDFPCDQSQINPYLKLVLVFNKLHLFVRATQVTVEEHVFRSTRKNSLYQ
 YDDIADQWMKVYETPDRLWDLGRHFECAYAKLYPQCLQKVL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_032505

ORF Size: 1803 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_032505.3](#)

RefSeq Size: 4684 bp

RefSeq ORF: 1806 bp

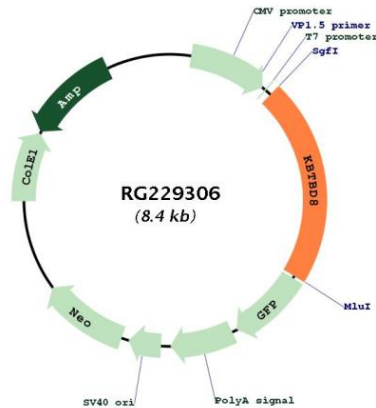
Locus ID: 84541

UniProt ID: [Q8NFY9](#)

Cytogenetics: 3p14.1

Gene Summary:

Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that acts as a regulator of neural crest specification (PubMed:26399832). The BCR(KBTBD8) complex acts by mediating monoubiquitination of NOLC1 and TCOF1: monoubiquitination promotes the formation of a NOLC1-TCOF1 complex that acts as a platform to connect RNA polymerase I with enzymes responsible for ribosomal processing and modification, leading to remodel the translational program of differentiating cells in favor of neural crest specification (PubMed:26399832).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG229306