

Product datasheet for **MG208401**

Tbce (NM_178337) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbce (NM_178337) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbce
Synonyms:	2610206D02Rik; C530005D02Rik; pmn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208401 representing NM_178337
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGACATTTTGCCATTAGATGTCATTGGTAGAAGAGTTGAAGTTAATGGAGAATATGCAACAGTGC
 GCTTTTGTGGTGTCTTCTCCTGTGGCAGGACTCTGTTAGGAGTTGAGTGGGACAATCCCGAGAGAGG
 AAAGCATGACGGGAGCCACGAAGTACTATGTATTTTAAATGCAGGCACCAACAGGAGGCTCTTTTGT
 CGTCCAAGCAAAGTTAATTTGCGAGATGACTTCCTTACTGCCCTTAAGAAGCGCTATGTGCTCGAAGATG
 GACCTGATGATGATGAAAATTCGTGTTCTTAAAGTTGGAAGTAAACAAGTGCAAACTATTGGTTTGA
 ACATATTACAAAGAAGCAGAGTCAGCTGAGAGCACTGCAGGACATTTCCCTCTGGAAGTGTGCCGTGAGC
 CATGCTGGTGAACAAGGAAGAATTGCTGAAGCCTGCCCAATATTCGAGTTGTAATTTATCCAAAACT
 TGTGTCAACTTGGGATGAAGTGGTCTTATTGCAGAGCAGCTCAAAGACCTGGAGGCTCTTGATCTCAG
 TGAAAATAAACTGCAGTTTCCCTCTGACTACCAACTCTAACTAGAACATTTTCTACTCTGAAGACTTTA
 GTCCTAAACAAAACAGGAATAACGTGGACTGAGGTGCTGCACTGTGCTCCTTCATGGCCAGTCTCGAGG
 AACTTTACCTCAAGTCTAACAATATTTCCATTTCTGAAAGGCCAGTGAATGTCCTGCAGAAAATGAGGT
 ACTAGACCTTTCTCCAACCCATCAATTGATGAAAGCCAGCTGAGCCTTATAGCAGATCTTCCAAGATTA
 GAACACCTAGTCCTTTCTGACATTGGACTTTCTTCTATACATTTTCCAGATGCTGAAATTGGATGCAAAA
 CATCCATGTTCCCGGCCCTGAAGTACCTCATAGTCAATGACAACCAGATATCAGAATGGTCATTTATCAA
 CGAGCTGGATAAACTGCAGAGCCTGCAGGCCCTGCTGCACTAGAAACCTTTGAGCAAAGCGGACAAA
 GCAGAGGAGATCATTATCGCCAAGATTGCTCAGCTGAGGACCCTGAACAGGTGCCAGATTCTTCCAGAGG
 AAAGGCGTGGAGCTGAGCTAGATTATCGAAAAGCCTTTGAAAATGAATGGAGAAAGGCTGGTGGACCCC
 AGATCCAGACAAAAACAGGCCAAATGCAGCGTTTCTCTCAGCCCATCTAGATACCAGCTTCTCTGCTGC
 AAATATGGTGCACCTGAAGATGAGGAGCTCAAAACACAGCAGCCATTGCTGTAACAAAAACGCTACTAA
 CCCTGAAGATAAAATGCTCAAATCAACCTGAACGGCAAAATATTAGAAAAGCAGTTGCCAGACTCCATGAC
 AGTTCAAAGGTAAAGGGACTGTTGTACGTCTTCTCAAAGTTCTGTGTCAGAACTTCTGTTGCCTAC
 GAAAGTTCCAAGATGCCGGGCAGAGAAATTGAAGTAAAGTACCTACAGCCATTACAGTTTTATTCTG
 TGGAAAATGGAGATTGCCTACTAGTGCGATGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208401 representing NM_178337
 Red=Cloning site Green=Tags(s)

MSDILPLDVIGRRVEVNGEYATVRFCAVPPVAGLWLGVEWDNPERGKHDSHEGTMFYFKCRHPTGGSFV
 RPSKVNFGDDFLTALKKRYVLEDGPDDDENSCSLKVGSKQVQTIQFEHITKKQSQLRALQDISLWNCVAVS
 HAGEQGRGIAEACPNIRVVNL SKNLLSTWDEVVLI AEQLKDLEALDLSENKLQFPSDPTLRTFSTLKT
 VLNKTGITWTEVLHCAPSWPVLEELYLKSNNISISERPVNVLQKMRLDLSSNP SIDESQLSLIADLPRL
 EHLVLSDIGLSSIHFPDAEIGCKTSMFPALKYLIVNDNQISEWSFINELDKLQSLQAL SCTRNP LSKADK
 AEEIIIAKIAQLRTLNRQILPEERRGAELDYRKAFGNEWRKAGGHPDPDKNRPNA AFLSAHPRYQLLCC
 KYGAPEDDEELKTQQPFMLKKQLLTLKIKCSNQPERQILEKQLPDSMTVQKVKGLLSRLKVPVSELLLSY
 ESSKMPGREIELENDLQPLQFYVSENGDCLLVRW

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_178337

ORF Size: 1572 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_178337.1](#)

RefSeq Size: 1807 bp

RefSeq ORF: 1575 bp

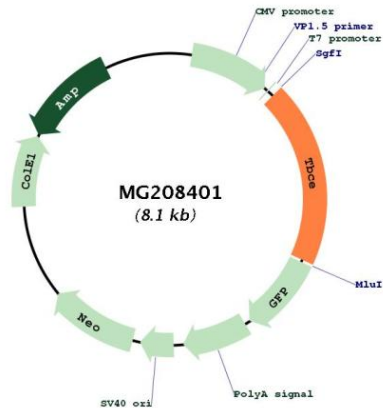
Locus ID: 70430

UniProt ID: [Q8CIV8](#)

Cytogenetics: 13 5.29 cM

Gene Summary: This gene encodes a tubulin binding cofactor that participates in microtubule dynamics. A mouse model of progressive motor neuropathy (pmn) was discovered to harbor a single amino acid deletion in this gene. Mice that are homozygous for pmn allele exhibit progressive atrophy and premature death due to respiratory failure. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2015]

Product images:



Circular map for MG208401