

Product datasheet for **RG206737**

TBC1D22A (NM_014346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D22A (NM_014346) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBC1D22A
Synonyms:	C22orf4; HSC79E021
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206737 representing NM_014346
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCAGCGACGGGCCAGGAAGCAATTCTGGAAGCGCAGCAACAGCAAGCTCCCGGGCAGCATCCAGC
 ACGTGTATGGTGCCAGCACCCCTTTGATCCACTGTTACATGGCACTTTGCTCAGGTCCACGGCCAA
 GATGCCGACCACACAGTGAAGGCCAAGAGGGTACGACCTTCCAGGAGTTTGAGAGCAATACCAGCGAT
 GCCTGGGACGCTGGGAGGACGACGATGAGCTCCTGGCCATGGCGGCGGAGAGCCTGAACTCCGAGGTGG
 TCATGGAGACGGCCAACCGTGTGCTGCGTAACACAGCCAGCGGCGGGGCGGCCACGCTGCAGGAGGG
 GCCAGGGCTTCAGCAGAAGCCAGGCCGAGGCCAGAGCCGCCCTCACCCCCAGCGGCGACCTCCGGCTG
 GTGAAGTCGGTCAGTGAGAGCCACAGTCTGTCTGCAGAAAGTCCAGCGATGCCGCCCTCTGCAGA
 GGTCCCAGTCTCTCCCACTCGGCCACCGTACGCTGGGTGGCAGTCTGACCCAGCACTCTCAGCAG
 CTCAGCGCTGAGCGAAAGAGAGGCTCCCGGCTCGACAAGTTCAGCAGCTGCTTCCCGGCCCAACACG
 GACCTTGAGGAATTACGGAGGTTGAGCTGGTCCGGAATCCCTAAGCCAGTGCCTCAATGACGTGGAAGC
 TCCTCTCAGGTTACCTTCCCGCCAATGTAGACCGGAGACCAGCCACTCTCCAGAGAAAACAAAAAGATA
 TTTTGCATTTATTGAGCACTATTACGATTCTAGGAACGACGAAGTTCACCAGGACACATACAGGCAGATC
 CACATAGACATCCCTCGCATGAGCCCTGAAGCGTTGATCTGCAGCCCAAGGTGACGGAGATTTTGA
 GGATCTTGTTTCATATGGGCGATCCGCCACCCAGCCAGTGGATACGTTACGGGTATAAATGATCTCGTCA
 TCCTTTCTTTGTGGTCTTCATTTGTGAATACATAGAGGCGAGGAGGTGGACACGGTGGACGTCTCCGGC
 GTGCCCGCAGAGGTGCTGTGCAACATCGAGGCCGACACCTACTGGTGCATGAGCAAGTCTGGATGGCA
 TTCAGGACAACACACCTTTGCCAACCTGGGATTCAAATGAAAGTAAAAATGTTAGAAGAACTCGTGG
 CCGGATTGATGAGCAAGTGCACCGGCACCTGGACCAACACGAAAGTGAATACCTGCAGTTTGCCTCCGC
 TGGATGAACAACCTGCTGATGAGGGAGGTGCCCTGCGTTGTACCATCCGCTGTGGGACACCTACCAGT
 CTGAACCGGACGGCTTTTCTCATTTCCACTTGTACGTGTGCGCTGCTTTTCTCGTGAAGTGGAGGA
 AATACTAGAAGAAAAAGATTTTCAAGAGCTGCTGCTCTTCTCCAGAACCTGCCACAGCCCACTGGGAT
 GATGAGGACATCAGCCTGTTGCTGGCCGAGGCCTACCGCCTCAAGTTTGTCTTTGCCGACGCCCAATC
 ACTACAAGAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206737 representing NM_014346
 Red=Cloning site Green=Tags(s)

MASDGARKQFWKRSNSKLPGSIQHVVYGAQHPPFDPLLHGTLRSTAKMPTTPVKAKRVSTFQEFESNTSD
 AWDAGEDDDELLAMAESLNSEVVMETANRVLNRNHSQRQGRPTLQEGPLQKQPRPEAEPPSPSGDLRL
 VKSVSESHTSCPAESASDAAPLQRSQSLPHSATVTLGGTSDPSTLSSALSEREASRLDKFKQLLAGPNT
 DLEELRRLSWSGIPKVPVPMWKLKLSGYLPANVDRRPTLQKQKEYFAFIEHYYSRNDVHQDQTYRQI
 HIDIPRMSPEALILQPKVTEIFERILFIWAIRHPASGYVQGINDLVTPFFVVFICEYIEAEVDTVDVSG
 VPAEVLNIEADTYWMSKLLDGIQDNFYAQPGIQMKVKMLEELVSRIDEQVHRHLDQHEVRYLQFAFR
 WMNLLMREVPLRCTIRLWDTYQSEPDGFSHFHLYVCAAFVVRWRKEILEEKDFQELLLFLQNLPTAHWD
 DEDISLLLAEAYRLKFAFADAPNHKK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014346

ORF Size: 1551 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_014346.5](#)

RefSeq Size: 3793 bp

RefSeq ORF: 1554 bp

Locus ID: 25771

UniProt ID: [Q8WUA7](#)

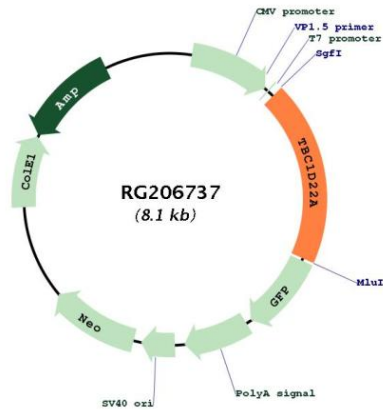
Cytogenetics: 22q13.31

Domains: TBC

Protein Families: Druggable Genome

Gene Summary: May act as a GTPase-activating protein for Rab family protein(s).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206737