

Product datasheet for **MG223971**

Tbc1d24 (NM_001163853) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbc1d24 (NM_001163853) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbc1d24
Synonyms:	9630033P11; C530046L02Rik; mKIAA1171
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223971 representing NM_001163853
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACCCCCAGGGTACAATTGCTTTGTGGATAAGGACAAGATGGATGCATCCATCCAGGACCTGGGGC
 CAAAGGAGCTGAACTGCACGGAGCTACAGGAGCTGAAGCAACTGGCACGGCAGGGTTACTGGGCTCAGAG
 CCACACCTGCGCGGAAAGTGTACCAGCGCTGATCCGGGACATCCCCTGCCGCACAGTACACCTGAT
 GCCAGCGTGTACAGTGACATTGTGGGAAGATTGTGGCAAGCACAGCAGCAGTAGTCTGCCCTTGCCCTG
 AGTTTGTAGACAACACTCAGGTGCCACCTACTGCCTGAACACACGGGGTGAAGGGGCTGTGCGCAAGAT
 CCTCTGTGATTGCCAACCACTCCCTGACATCTCCTTCTGCCCTGCCCTGCCTGCTGTGGTGGCCTTG
 CTACTGCACTACAGCATCGATGAAGCTGAGTGTTTCGAAAAGCCTGCCGCATCTTATCCTGCAATGACC
 CCACCAAGAAGCTCATTGACCAGAGCTTCTGGCCTTTGAGTCTTCTGTATGACATTTGGGGACCTGGT
 GAACAAGTACTGCCAGGCAGCCATAAACTGATGGTGGCCGTGTGAGAGGACGCTCTGCAGTCTACTCT
 GACTGGCAGCGATGGCTCTTTGGGGAGCTGCCCTCAATTAATTTGCCCCGTGTTTTGATGTCTTCCCTG
 TAGAAGGCTACAAAGTATTGTACCGAGTTGCTCTGGCCATCCTCAAGTCTTCCACAAGGTGAGAGCAGG
 ACAGCCCCCTTGAGTCAGACAATGTAAGCAAGACATCCGAATGTTTGTCAAGGACATTGCCAAGACAGTG
 TCCCCTGAGAACTACTAGAGAAGGCCTTTGCCATCCGCCTATTTTCCGAAAGGAGATCCAGCTCTTGC
 AAATGGCCAATGAGAAAGCACTGAGGCAGAAGGGTATAACTGTCAAACAGAAGAGGCAGTTTGTGCACTT
 AGCTGTCCATGCAGAGAAGTCCACTCAGAGATTGTCAGCGTGAAGGAGATGAGAGACATTTGGTCTGG
 ATCCCTGAGCGCTTTGCCCTCTGCCAACCCCTCCTGCTTCTCATCACTGCAGCATGGGTACAGCCTAA
 GCAGGTTCTATTTCCAGTGTGAAGGACATGAGCCACCCTCCTGCTCATCAAGACCACTAAAAGGAGGT
 CTGTGGGCTTACTGTCAACAGACTGGAGCGAGAGACTAAATTCGGAGGCAAGCTGGGCTTCTTTGGG
 ACTGGAGAATGCTTTGTTTTAGGCTGCAGCGGAAGTGCAGCGCTATGAGTGGTGGTATCAAACACC
 CAGAGCTGACCAAGGCAACATCCCTCAAGTCTTCAGAGGCTGCAGGCAGTTCTTCCCTCATCAGCCACTG
 CTCTTCAGACCCCGCTGATCGGCTCTCCCTTTCTGGCTGCCCGGCACTTCAACCTGCCCTCCAAGACT
 GAGTCCATGTTTATGGCTGGAGGCAATGACTGCCTCATCATTGGGGGAGGAGGTGGTCAAGCACTTACG
 TTGATGGGACCTGAATCGAGGGCGCACTGGACACTGTGACACATTCAACAACCGCCCTCTGCTCTGA
 GAACTTCTCATCGCAGCTGTGGAGCTTGGGGCTTCCAAGACCCTGACACCGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG223971 representing NM_001163853
 Red=Cloning site Green=Tags(s)

MDPPGYNCFVDKDKMDASIQDLGPKELNCTELQELKQLARQGYWAQSHTLRGKVVYQRLIRDIPCRVTPD
 ASVYSDIVGKIVGKHSSSLPLPEFVDNTQVPTYCLNTRGEGAVRKILLCIANQFPDISFCPALPAVVAL
 LLHYSIDEAEFEKACRILSCNDPTKKLIDQSFLAFESSCMTFGDLVNKYCQAAHKLMAVSEDVLQVYS
 DWQRWLFGELPLNYFARVFDVFLVEGYKLYRVALAILKFFHKVRAGQPLESDNVKQDIRMFVKDIAKTV
 SPEKLLKAFAIRLFSRKEIQLLQMANEKALRQKGITVKQKRQFVHLAVHAENFHSEIVSVKEMRDIWSW
 IPERFALCQPLLLFSSLQHGYSLSRFYFQCEGHEPTLLL IKTTQKEVCGAYLSTDWSERTKFGGKLGFFG
 TGECFVFRLLQPEVQRYEWWVIKHPELTKATSLKSSEAAGSSSLISHCSDPADRLSPFLAARHFNLPSKT
 ESMFMAGGNDCLIIIGGGGQALYVDGDLNRGRTGHCDTFNNQPLCSENFLLIAAVEAWGFQDPDTE

TRTRPLE – GFP Tag – V

Restriction Sites:

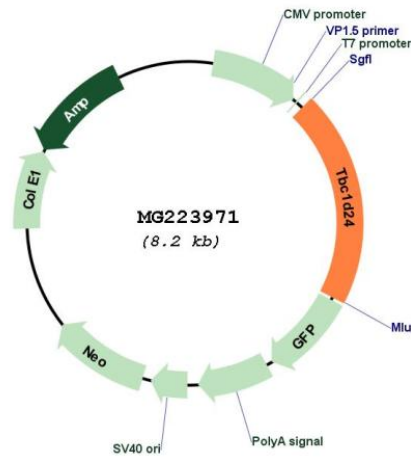
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001163853
ORF Size:	1665 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:	<ol style="list-style-type: none">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_001163853.1 , NP_001157325.1
RefSeq Size:	7774 bp
RefSeq ORF:	1668 bp
Locus ID:	224617
UniProt ID:	Q3UUG6
Cytogenetics:	17 A3.3
Gene Summary:	May act as a GTPase-activating protein for Rab family protein(s) (PubMed:20727515). Involved in neuronal projections development, probably through a negative modulation of ARF6 function (PubMed:20727515).[UniProtKB/Swiss-Prot Function]