

## Product datasheet for **MG223536**

### **Tbc1d14 (NM\_001113362) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tbc1d14 (NM_001113362) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbc1d14
Synonyms:	2810413P16Rik; AU043625; C86258; D5Ertd110e; mKIAA1322
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MG223536 representing NM\_001113362  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGCTTTATCTAGACCGCTTCTGGGACTGATGGCAAAGTTTCTTCTGGGACCAAGATGACTGATG  
 GAAACCTTTCCACCTCGATGAATGGTGTAGCATTGATGGGCATCCTAGATGGTCGGCAAGGAGACTCCCT  
 TCAGGACCTACAACACCTTAGTATCAAGGCGGCTCCCAGATCCCTTTTCAGTGCCTGACTACGGACCTTCA  
 CTA AAAACTTGGTGCTTTGGAAGATCGACACAGCCTTCAATCAGTGGACTCGGGCATTCTACCCCTGGAGA  
 TTGGCAACCCAGAGCCTGTTCCCTGCAGTGTGGTCCATGTGAAGAGAAAGCAGTCTGAGTCAGAGATCGT  
 CCCGGAGCGGGCCTTCCAGAGTGCATGCCCGCTGCCGTGTCACACCCTCAGCTCCACCTGCAGCGAG  
 CGGGAGCAGGTTGTGCGGAAGTCTCCACATTTCTAGGACAGGCTATGACTCAGTAAACTCTACAGCC  
 CCACCTCAAAGCCTTGAGCCGAAGTGACAATGTCTCTGTCTGCAGTGTGTCTAGTCTTGGCACAGAGCT  
 GTCAACTACGTTGTCGGTCAGCAATGAGGACATCTTGGACCTCATGGTCACGAGCAATCCAGCGCTATT  
 GTGACCTGGAGAATGATGATGACCCACAGTTTACTGACGTCACCTGAGCTCCATCAATGAAACCAGCG  
 ACTTACACCAGCAGGACTGTGTTGCTGAGACTGAGGAGGGGAGGAAATTGAAACTATTGCACCCATTTCAG  
 TCACCTTTTACAAGGAATTTGCTTGTAGAAAACAAAATGCAAGGCTTGATAGACAGAGAGACTTGGGA  
 TGGAAAGCTGTTTGGAAAAGTCCCACTCCGAGAGACTGCTCAGAAAAGATTCAAAGAAGACCCAGAAGGAAT  
 ATGAAGACAAGGCTGGAAGACCGAGCAGGCCACCTCTCCAAGCAGAATGTGAGGAAGAACCTGGATTT  
 TGAGCCACTGTCCACCACGGCGCTCATCTCGAGGACAGACCTGCAAATCTCCAGCCAAGCCAGCTGAA  
 GAAGCTCAAAGCACAGACAGCAGTATGAAGAGATGGTGTGCAGGCCAAGAAAACGAGAGCTTAAAGAAG  
 CCCAGCGTCGGAGGAAGCAGCTGGAGGAAAGTGAAGTTGAAGAGAGCATTGGGAACGCTGTCCCTCAC  
 CTGGAACAATGAGATCTTGCCCTAACTGGGAAACCATGTGGTGTCTAAGAAGTTTCGAGACTTGTGGTGG  
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 ACGAGCTCTTTGACATCTGTCTTGTCTCGGGCCAAGGAGCGGTGGCGGTCCCTCAGCACTGGAGGCTCAGA  
 AGTGGAGAATGAAGATGCTGGGTTTTTCAGCAGCAGACAGAGAGGCCAGTCTGGAGCTTATTA AACTGGAC  
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 TTTTGGGCGCTTATACTTGTACCGCCGGATGTGGGTTATGTTACAGGCATGCCTTTATAGCTGCAGT  
 GTTGATCTTGAACCTCGATACTGCAGATGCCTTTATTGCTTTTTCTAATCTTTTGAATAAACCTGTCAA  
 ATGGCGTTTTTCCGAGTGGACCATGGCCTTATGTTGACTTACTTTGCTGCATTTGAGGTATTCTTTGAAG  
 AAAACTTGCCGAAATGTTTGCAGATTTCAAGAAAACA AACTTAACTGCAGATATCTACCTAATCGATTG  
 GATTTTACCTTTGACAGTAAGTCCCTGCCCTTGGACTTGGCCTGCCGATCTGGGACGTATTCTGTCTGA  
 GATGGAGAGGAATTTCTTCCGCACAGCTCTGGGCATCCTGAAGCTTTTTGAAGATATCCTGACCAGGA  
 TGGACTTCATCCACAGTCCCAAGTTTCTGACCAGGCTGCCTGAGGACCTGCCCGCAGATGAAGTGTTCG  
 AGCTATCTCCACAGTCCAGATGCAAAGCCGGAACAAGAAATGGGCACAGGTGCTGTCTGCACTGCAGAAA  
 GACAGCCGGGAGATGGAGAAAGGAAGCCATCCCTCAGACAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG223536 representing NM\_001113362  
 Red=Cloning site Green=Tags(s)

```
MRLYLDRFWGLMAKVSSGKMTDGNLSTSMNGVALMGILDGRQGDLSQLQHL S IKAAPRSLVSPDYGPS
LKLGALEDRHSLQSVDSGIPTLEIGNPEPVPCSVVHVKKRQSESEIVPERAFQSACPLPSCPTPSAPTCSE
REQVVRKSSTFPRTGYDSVKLYSPTS KALSRSDNVSVCSVSSLGTELSTL SVSNEDILDLMVTSNSSAI
VTLENDDDPQFTDVTLSSINETS DLHQQDCVAETEEGRK LKLLHPF SHFFTRNLLARKQNARLDQRDLG
WKLFGKVPLRETAQKDSKKTQKEYEDKAGRPSRPPSPKQNVKKNLDFEPLSTTALILED RPANLPAKPAE
EAQKHRQQYEEMVLQAKKRELKEAQR RRKQLEERCKVEESIGNAVLTWNNEILPNWETMWC SKKVRDLWW
QGIPPSVRGKVVSLAIGNELNITHELFDICLARA KERWRSLSTGGSEVENEDAGFSAADREASLELIKLD
ISRTFPNL CIFQQGGPYHDLHSILGAYTCYRPDVGVVQGM S FIAAVLILNLDTADAFIAFNLLNKPCQ
MAFFRVDHGLMLTYFAAFEVFF EENLPKLF AHFKNNLTADIYLIDWIFTLYSKSLPLDLACRIWDVFCR
DGE EFLFR TALGILKLFEDILTRMDFIHS AQFLTRLPEDLPADEVFAAISTVQMQRNKKWAQVLSALQK
DSREMEKGSPLRH
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001113362

**ORF Size:** 2142 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\\_001113362.1](#), [NP\\_001106833.1](#)

**RefSeq Size:** 4783 bp

**RefSeq ORF:** 2145 bp

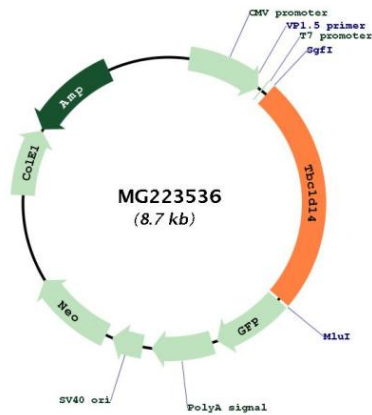
**Locus ID:** 100855

**UniProt ID:** [Q8CGA2](#)

**Cytogenetics:** 5 19.15 cM

**Gene Summary:** Negative regulator of starvation-induced autophagosome formation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG223536