

Product datasheet for **MG207312**

Ttyh1 (NM_001001454) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttyh1 (NM_001001454) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ttyh1
Synonyms:	4930459B04Rik; 6330408P11Rik; mTTY1; tty; TTY1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207312 representing NM_001001454
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGCACCCCGGGCTACCGACCTCTGCCTGGGTGCATCTCCTCCACCAGCTGCCCGCGCCGACT
 TCCAGCTCCGCCGGTGCCAGCGGCTTTGCTCCCGCGACCAAGAGTACCAGCAGGCCCTGCTGCTGGT
 GGCAGCCTTGGCTGGCTTGGTTTAGGCCTGAGCCTCATCTTCATCGCTGTCTACCTCATCCGCTTCTGC
 TGCTGCAGGCCTCCAGAACCCATGGGGCCAAGAGTCCCCACCGGAGGAGTTGCGTCACCTGGAGCT
 GCATTGCTGCCCTTCTCGTGGGCTGTGCCGGCATTGGCATTGGTTTCTATGGTAACAGCGAGACCAGCGA
 TGGGGTGTCCCAGCTCAGCTCAGCACTGCTGCACGCCAACACACGCTCAGCACCATCGATGACGTGGT
 CTGAAACGGTGGAGAGGCTGGGTGAGGCAGTGAAGACGGAGCTGACCACCCTGGAGGAAGTGTGTGAG
 TCCGCATGGAGCTGGTGGCTGCCACCAGGGGAGCCGAAGGCAGGCTGAAGCTGTGCTCAGTACCTGCA
 AGGACTGGCCTTCTGGCAAGGAGTGTCCCTGAGCCCCGTACAGGTGGCTGAAGATGTGACTTTCGTGGAG
 GAGTACAGGTGGCTGGCCTATGTCTCCTGCTGCTCTTGGTGCTTCTGGTTTGTCTCTTACCCTCCTGG
 GCCTGGCAAAGCAGAGCAAATGGCTGGTGGTGTGATGACTGCCATGAGTCTCCTGGTGGTGTGCTCTGAG
 CTGGGGTTCTATGGGCTAGAGGCTGCCACAGCTGTGGGCTCAGTGACTTCTGCTCCAACCCAGACACC
 TATGTGCTGAACCTGACCCAGGAGGAGACAGGGCTCAGCTCAGACATCCTCAGCTATTATTTCTGTGCA
 ACCAGGCGGTCTCCAACCCCTTCCAACAGAGGCTGACGCTGTCCCAGCGTGTCTAGCCAGCATCCACTC
 TCAGCTGCAGGGCCTGGAGCGGGAAGCTATCCCTCAATTTCTGCTGCACAGAAGCCCTTGTATCCTTG
 GAGGAGACACTGAATGTGACAGAAAGAAGCTTCCACCAGTTGGTGGCGCTGCTGCATTGCCGAGTCTGC
 ACAAGGACTATGGCTCAGCACTCCGAGGCTGTGTGAAGATGCCCTAGAGGGCCTACTGTTCTGATGCT
 CTTTTCTCTCCTGTCTGCGGGGGCCCTAGCCACCACTCTGTGCAGCCTGCCCGCGCCTGGGCCCTTTC
 CCACCCAGGAATCCAACGCTTTGTGACGTGGCAGTCTTCCATCTGAGCCTCCCCTCCAGTCTGGAGCCT
 GCCTCTCTCTATGCTCTTTCTGGTGTGAGAAAGGCCCACTAACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207312 representing NM_001001454
 Red=Cloning site Green=Tags(s)

MGAPPGYRPSAWVLLHQLPRADFQLRPVPSGFAPRDQEQQALLLVAALAGLGLSLIFIAVYLIRFC
 CCRPPEPHGAKSPPPGGCVTWSCIAALLVGCAGIGIFYGNSETSDGVSQSSALLHANHTLSTIDDV
 LETVERLGEAVKTELTTLEEVLSVRMELVAATRGARRQAEAAAQYLQGLAFWQGVSLSPVQVAEDVTFVE
 EYRWLAYVLLLLLVLLVCLFTLLGLAKQSKWLVVMTAMSLLVLSWGSMLLEAATAVGLSDFCSNPDT
 YVNLNLTQEETGLSSDILSYFVLCNQAQVSNPFQRLTLSQRALASIHSQLQGLEREAIPQFSAAQKPLL
 EETLNVTERSFHQLVALLHCRSLHKDYGSALRGLCEDALEGLFLMLFSLLSAGALATTLCSLPRAWALF
 PPRNPALCSGSLPSEPPLQSGACLSSMLLSWLEKAPLT

TRTRPLE – GFP Tag – V

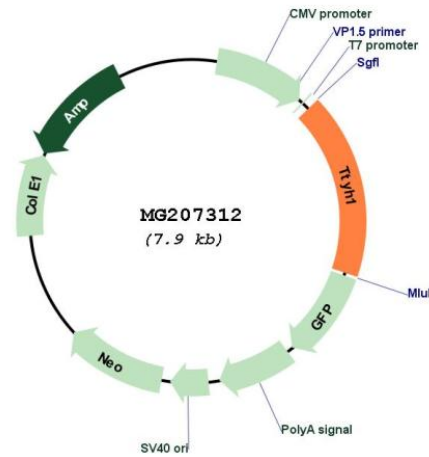
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001001454

ORF Size: 1374 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_001001454.1 , NP_001001454.1
RefSeq Size:	1482 bp
RefSeq ORF:	1383 bp
Locus ID:	57776
UniProt ID:	Q9D3A9
Cytogenetics:	7 A1
Gene Summary:	This gene encodes a member of the Tweety family of membrane proteins. Members of this family contain five predicted transmembrane regions that are arranged in a characteristic pattern. In mouse, the protein is predominantly localized to the endoplasmic reticulum and displays calcium binding activity. Targeted knock out of this gene results in early embryonic lethality prior to the blastocyst stage. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]