

Product datasheet for **MG223829**

Ttyh1 (NM_021324) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttyh1 (NM_021324) 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)



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ORF Nucleotide Sequence:

>MG223829 representing NM_021324
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGGGCACCCCGGGCTACCGACCTCTGCCTGGGTGCATCTCCTCCACCAGCTGCCCGCGCCGACT
 TCCAGCTCCGCCCGGTGCCACGGCTTTGCTCCCGCGACCAAGAGTACCAGCAGGCCCTGCTGCTGGT
 GGCAGCCTTGGCTGGCTTGGTTTAGGCCTGAGCCTCATCTTCATCGCTGTCTACCTCATCCGCTTCTGC
 TGCTGCAGGCCTCAGAACCCCATGGGGCCAAGAGTCCCCACCCGGAGGAGTTGCGTCACCTGGAGCT
 GCATTGCTGCCCTTCTCGTGGGCTGTGCCGGCATTGGCATTGGTTTCTATGGTAACAGCGAGACCAGCGA
 TGGGGTGTCCCAGCTCAGCTCAGCACTGCTGCACGCCAACACACGCTCAGCACCATCGATGACGTGGTG
 CTGAAACGGTGGAGAGGCTGGGTGAGGCAGTGAAGACGGAGCTGACCACCCTGGAGGAAGTGTGTGAG
 TCCGCATGGAGCTGGTGGCTGCCACCAGGGGAGCCGAAGGCAGGCTGAAGCTGTGCTCAGTACCTGCA
 AGGACTGGCCTTCTGGCAAGGAGTGTCCCTGAGCCCCGTACAGGTGGCTGAAGATGTGACTTTCGTGGAG
 GAGTACAGGTGGCTGGCCTATGTCTCCTGCTGCTCTTGGTGCTTCTGGTTTGTCTCTTACCCTCCTGG
 GCCTGGCAAAGCAGAGCAAATGGCTGGTGGTGTGATGACTGCCATGAGTCTCCTGGTGGTGTGCTCTGAG
 CTGGGGTTCTATGGGCTAGAGGCTGCCACAGCTGTGGGCTCAGTGACTTCTGCTCCAACCCAGACACC
 TATGTGCTGAACCTGACCCAGGAGGAGACAGGGCTCAGCTCAGACATCCTCAGCTATTATTTCTGTGCA
 ACCAGGCGGTCTCCAACCCCTTCCAACAGAGGCTGACGCTGTCCCAGCGTGTCTAGCCAGCATCCACTC
 TCAGCTGCAGGGCCTGGAGCGGGAAGCTATCCCTCAATTTCTGCTGCACAGAAGCCCTTGTATCCTTG
 GAGGAGACTGAATGTGACAGAAAGAAGCTTCCACCAGTTGGTGGCGCTGCTGCACTGCCGAGTGTGCT
 ACAAGGACTATGGCTCAGCACTCCGAGGCTGTGTGAAGATGCCCTAGAGGGCCTACTGTTCTGATGCT
 CTTTTCTCTCTGTCTGCGGGGGCCCTAGCCACCACTCTGTGACGCTGCCCGCGCCTGGGCCCTTTC
 CCACCCAGTGATGACTACGATGACACAGATGACGATGACCCTTCAACCCTCAGGAATCCAAACGCTTTG
 TGCAGTGGCAGTCTCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223829 representing NM_021324
 Red=Cloning site Green=Tags(s)

MGAPPGYRPSAWVLLHQLPRADFQLRPVPSGFAPRDQEQQALLLVAALAGLGLSLIFIAVYLIRFC
 CCRPPEPHGAKSPPPGGCVTWSCIAALLVGCAGIGIFYGNSETSDGVSQSSALLHANHTLSTIDDVV
 LETVERLGEAVKTELTTLEEVLSVRMELVAATRGARRQAEAAAQYLQGLAFWQGVSLSPVQVAEDVTFVE
 EYRWLAYVLLLLLVLLVCLFTLLGLAKQSKWLVVMTAMSLVLVLSWGSMLAATAVGLSDFCSNPDT
 YVNLNTQEETGLSSDILSYFVLCNQAQVSNPFQRLTLSQRALASIHSQLQGLEREAIPQFSAAQKPLL
 EETLNVTERSFHQLVALLHCRSLHKDYGSALRGLCEDALEGLLFLMLFSLLSAGALATTLCSLPRAWALF
 PPSDDYDDTDDDDPFNPQESKRFVQWQSSI

TRTRPLE - GFP Tag - V

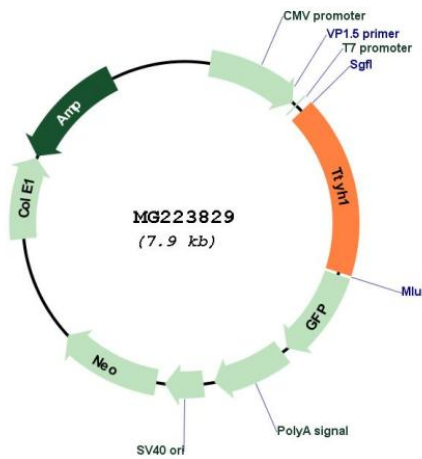
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021324

ORF Size: 1350 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_021324.6
RefSeq Size:	3888 bp
RefSeq ORF:	1353 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]