

## Product datasheet for **MR207312**

### **Ttyh1 (NM\_001001454) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ttyh1 (NM_001001454) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ttyh1
Synonyms:	4930459B04Rik; 6330408P11Rik; mTTY1; tty; TTY1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207312 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGGCACCCCGGGCTACCGACCTCTGCCTGGGTGCATCTCTCCACCAGCTGCCCGCGCCGACT  
 TCCAGCTCCGCCGGTGCCACGGCTTTGCTCCCGCGACCAAGAGTACCAGCAGGCCCTGCTGCTGGT  
 GGCAGCCTTGGCTGGCTTGGTTTAGGCCTGAGCCTCATCTTCATCGCTGTCTACCTCATCCGCTTCTGC  
 TGCTGCAGGCCTCAGAACCCCATGGGGCCAAGAGTCCCCACCGGAGGAGGTTGCGTCACCTGGAGCT  
 GCATTGCTGCCCTTCTCGTGGGTGTGCCGGCATTGGCATTGGTTTCTATGGTAACAGCGAGACCAGCGA  
 TGGGGTGTCCAGCTCAGCTCAGCACTGCTGCACGCCAACACACGCTCAGCACCATCGATGACGTGGT  
 CTGAAACGGTGGAGAGGCTGGGTGAGGCAGTGAAGACGGAGCTGACCACCCTGGAGGAAGTGTGTGAG  
 TCCGCATGGAGCTGGTGGCTGCCACCAGGGGAGCCGAAGGCAGGCTGAAGCTGTGCTCAGTACCTGCA  
 AGGACTGGCCTTCTGGCAAGGAGTGTCCCTGAGCCCGTACAGGTGGCTGAAGATGTGACTTTCGTGGAG  
 GAGTACAGGTGGCTGGCCTATGTCTCCTGCTGCTCTTGGTGTCTCTGGTTTGTCTTCCACCCTCCTGG  
 GCCTGGCAAAGCAGAGCAAATGGCTGGTGGTGTGATGACTGCCATGAGTCTCCTGGTGGTGTGCTGAG  
 CTGGGGTTCTATGGGCTAGAGGCTGCCACAGCTGTGGGCTCAGTGACTTCTGCTCCAACCCAGACACC  
 TATGTGCTGAACCTGACCCAGGAGGAGACAGGGCTCAGCTCAGACATCCTCAGCTATTATTTCTGTGCA  
 ACCAGGCGGTCTCCAACCCCTTCCAACAGAGGCTGACGCTGTCCAGCGTGTCTAGCCAGCATCCACTC  
 TCAGCTGCAGGGCCTGGAGCGGGAAGCTATCCCTCAATTTCTGCTGCACAGAAGCCCTTGTATCCTTG  
 GAGGAGACTGAATGTGACAGAAAGAAGTTCACCAGTTGGTGGCGCTGCTGCATTGCCGAGTCTGC  
 ACAAGGACTATGGCTCAGCACTCCGAGGCTGTGTGAAGATGCCCTAGAGGGCCTACTGTTCCCTGATGCT  
 CTTTTCTCTCCTGTCTGCGGGGGCCCTAGCCACCCTCTGTGACGCTGCCCGCGCCTGGGCCCTCTTC  
 CCACCCAGGAATCCAACGCTTTGTGAGTGGCAGTCTTCCATCTGAGCCTCCCTCCAGTCTGGAGCCT  
 GCCTCTCTCTATGCTCTTTCTGGTGTGAGAGAAGGCCCACTAACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207312 protein sequence  
 Red=Cloning site Green=Tags(s)

MGAPPGYRPSAWVLLHQLPRADFQLRPVPSGFAPRDQEQQALLLVAALAGLGLGLSLIFIAVYLIRFC  
 CCRPPEPHGAKSPPPGGCVTWSCIAALLVGCAGIGIGFYGNSETSDGVSQSSALLHANHTLSTIDDVV  
 LETVERLGEAVKTELTTLEEVLVSRMELVAATRGARRQAEAAAQYLQGLAFWQGVSLSPVQVAEDVTFVE  
 EYRWLAYVLLLLLVLLVCLFTLLGLAKQSKWLVVMTAMSLLVLSWGSMGLEAATAVGLSDFCSNPDT  
 YVLNLTQEETGLSSDILSYFVLCNQAQVSNPFQQRLLTSQRALASIHSQLQGLEREATIPQFSAAQKPLL  
 EETLNVTERSFHQLVALLHCRSLHKDYGSALRGLCEDALEGLLFLMLFSLLSAGALATTLCSLPRAWALF  
 PPRNPALCSGSLPSEPPLQSGACLSSMLLSWLEKAPLT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001001454

**ORF Size:** 1383 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\\_001001454.1](#), [NM\\_001001454.2](#), [NM\\_001001454.3](#), [NM\\_001001454.4](#), [NP\\_001001454.1](#)

**RefSeq Size:** 3842 bp

**RefSeq ORF:** 1383 bp

**Locus ID:** 57776

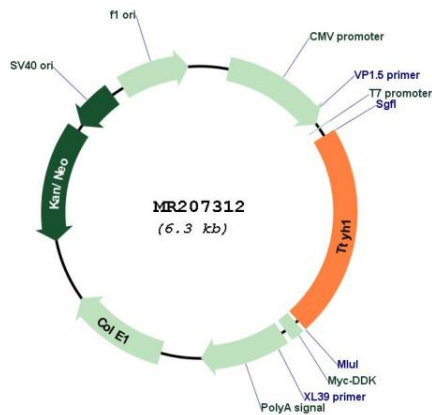
**UniProt ID:** [Q9D3A9](#)

**Cytogenetics:** 7 A1

**MW:** 49.7 kDa

**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]

**Product images:**



Circular map for MR207312