

## Product datasheet for **RG234134**

### TTYH1 (NM\_001201461) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: TTYH1 (NM\_001201461) Human Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: TTYH1  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >RG234134 representing NM\_001201461  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGGCGCCCCGGGCTACCGGCCCTCAGCTTGGGTGCATCTCCTCCACCAGCTGCCCGCGCCGACT  
 TCCAGCTCCGCCCCGGTGCCCAGCGTTTTTCGCGCCCCAAGAGCAGGAATACCAGCAGGCCTTGTGCTGGT  
 GGCGGCCCTGGCGGGCCTGGGCTTGGGCTGAGCCTCATTTTCATCGCTGTCTACCTCATCCGCTTCTGC  
 TGCTGCCGGCCCCGAGCCCCCGGGTCCAAGATCCCCGCGGGGGAGGCTGCGTCCACCTGGAGTGA  
 GCATTGTCGCCCTTCTCGCCGGCTGCACTGGCATTGGCATCGGTTTCTATGGCAACAGTGAGACCAGTGA  
 TGGGGTGTCCCAGCTCAGCTCTGCGCTGCTGCAGCCAACACACACTCAGCACCATTGACCACCTGGTG  
 TTGGAGACGGTGGAGAGGCTGGGCGAGGCGGTGAGGACAGAGCTGACCACCCTGGAGGAGGTGCTCGAGC  
 CGCGCACGGAGCTGGTGGCTGCCGCCGAGGGGCTCGACGGCAGGCGGAGGCTGCGGCCAGCAGCTGCA  
 GGGGCTGGCCTTCTGGCAGGGAGTGCCCTGAGCCCCCTGCAGGTGGTGAAAAATGTGTCCTTTGTGGAG  
 GAGTACAGGTGGCTGGCCTACGTCTCTGCTGCTCCTGGAGCTGCTGGTCTGCCTTCCACCTCTGG  
 GCCTGGGAAGCAGAGCAAGTGGTGGTATCGTATGACAGTCATGAGTCTCCTGGTTCTCGTCTGAG  
 CTGGGGCTCCATGGCCTGGAGGCAGCCACGGCCGTGGGCTCAGTACTTCTGCTCCAATCCAGACCT  
 TATGTTCTGAACCTGACCAGGAGGAGACAGGGCTCAGCTCAGACATCCTGAGCTATTATCTCCTCTGCA  
 ACCGGGCGTCTCCAACCCCTTCCAACAGAGGCTGACTCTGTCCCAGCGAGCTCTGGCCAACATCCACTC  
 CCAGCTGCTGGGCTGGAGCGAGAAGCTGTGCCTCAGTCCCTTCCAGCGAGAAGCCTCTGCTGTCTTG  
 GAGGAGACTCTGAATGTGACAGAAGGAAATTTCCACCAGTTGGTGGCACTGCTACACTGCCCGAGCCTGC  
 ACAAGGACTATGGTGCAGCCCTGCGGGGCTGTGCGAAGACGCCCTGGAAGGCCTGCTCTTCTGCTACT  
 CTTCTCCTGCTGTCTGCAGGAGCGTGGCCACTGCCCTTGCAGCCTGCCCCGAGCCTGGGCCCTTTC  
 CCACCCAGTGACGACTACGATGACACAGACGATGACGACCCTTCAACCCCTCAGCAGGAATCCAAGCGCT  
 TTGTGCAGTGGCAGTCTCTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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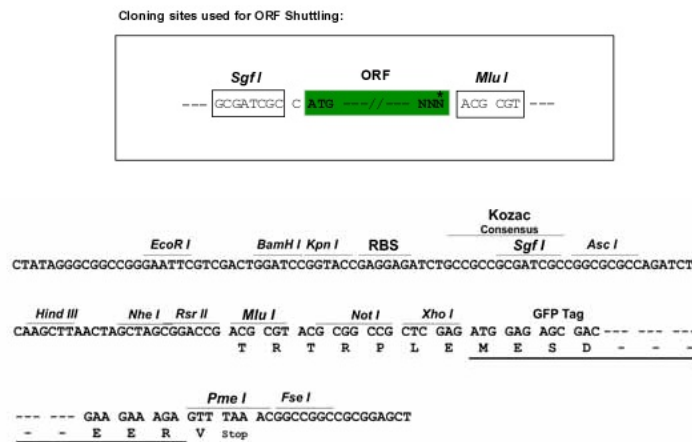
**Protein Sequence:** >RG234134 representing NM\_001201461  
Red=Cloning site Green=Tags(s)

MGAPPGYRPSAWVHLLHQLPRADFQLRPVPSVAFAPQEYEQQALLLVAALAGLGLSLIFIAVYLIRFC  
 CCRPPEPPGSKIIPSPGGCVTWSCIVALLAGCTGIGIGFYGNSETSDGVSQSSALLHANHTLSTIDHLV  
 LETVERLGEAVRTELTTLEEVLEPRTLVAAARGARRQAEAAAQQLQGLAFWQGVPLSPLQVAENVSFVE  
 EYRWLAYVLLLLLELLVCLFTLLGLAKQSKWLVI VMTVMSLLVLVLSWGSMGLEAATAVGLSDFCSNPDP  
 YVLNLTQEETGLSSDILSYLLCNRAVSNPFQQRLLTSQRALANIHSQLLGLEREAVPQFPSPAQKPLL  
 EETLNVTEGNFHQLVALLHCRSLHKDYGAALRGLCEDALEGLLFLLLFSLLSAGALATALCSLPRAWALF  
 PPSDDYDDTDDDDPFNPQQESKRFFVQWQSSI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001201461

**ORF Size:** 1353 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\\_001201461.2](#)

**RefSeq Size:** 1924 bp

**RefSeq ORF:** 1356 bp

**Locus ID:** 57348

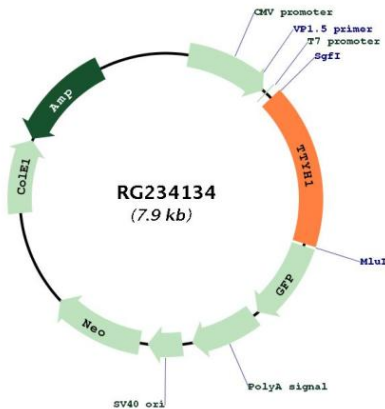
**UniProt ID:** [Q9H313](#)

**Cytogenetics:** 19q13.42

**Protein Families:** Ion Channels: Other, Transmembrane

**Gene Summary:** This gene encodes a member of the tweety family of proteins. Members of this family function as chloride anion channels. The encoded protein functions as a calcium(2+)-independent, volume-sensitive large conductance chloride(-) channel. Three transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jan 2011]

**Product images:**



Circular map for RG234134