

## Product datasheet for **RG218543**

### TAS1R2 (NM\_152232) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAS1R2 (NM_152232) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAS1R2
Synonyms:	GPR71; T1R2; TR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG218543 representing NM\_152232  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCCAGGGCAAAGACCATCTGCTCCCTGTTCTTCTCCTATGGGTCTGGCTGAGCCGGCTGAGA  
 ACTCGGACTTCTACCTGCCTGGGATTACCTCCTGGGTGGCCTTCTCCCTCCATGCCAACATGAAGGG  
 CATTGTTACCTTAACTTCTGCAGGTGCCATGTGCAAGGAGTATGAAGTGAAGGTGATAGGCTACAAC  
 CTCATGCAGGCCATGCGCTTCGCGGTGGAGGAGATCAACAATGACAGCAGCCTGCTGCCTGGTGTGCTGC  
 TGGGCTATGAGATCGTGGATGTGTGCTACATCTCCAACAATGTCCAGCCGGTGTCTACTTCTGGCACA  
 CGAGGACAACCTCCTTCCATCCAAGAGGACTACAGTAACTACATTTCCCGTGTGGTGGCTGCTATTGGC  
 CCTGACAACTCCGAGTCTGTCATGACTGTGGCCAACTTCTCTCCCTATTTCTCCTTCCACAGATCACCT  
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 CGACCACCAGTGCAGGCCATGGTGCAGCTGATGCTGCACTTCCGCTGGAAGTGGATCATTGTGCTGGT  
 AGCAGCGACACCTATGGCCGCGACAATGGCCAGCTGCTTGGCGAGCGCGTGGCCCGCGCGACATCTGCA  
 TCGCCTTCCAGGAGACGCTGCCACACTGCAGCCCAACCAGAACATGACGTGACAGGAGCGCCAGCGCCT  
 GGTGACCATTTGTGGACAAGCTGCAGCAGAGCACAGCGCGCTCGTGGTCTGTTCTCGCCGACCTGACC  
 CTGTACCACTTCTTCAATGAGGTGCTGCGCCAGAACTTACGGGCGCCGTGTGGATCGCCTCCGAGTCTT  
 GGGCCATCGACCCGGTCTGCACAACCTCACGGAGCTGGGCCACTTGGGCACCTTCTGGGCATCACCAT  
 CCAGAGCGTGCCATCCCGGGCTTCAGTGAGTTCCGCGAGTGGGGCCACAGGCTGGGCCGCCACCCCTC  
 AGCAGGACCAGCCAGAGCTATACCTGCAACCAGGAGTGCAGACAACCTGCCTGAACGCCACCTGTCTTCA  
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 GGCCTCAGTCCCACCACCCGACTGACCCCGATGACCCCAAGATCACAATGTCTCCTGTAACCCCAACT  
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 CATGGGCAAAGAGCTGCCCAACTACAACGAGGCCAAGTTCATCACCCCTCAGCATGACCTTCTATTTCC  
 ACCTCATCCGCTCCCTCTGCACCTTATGTCTGCCTACAGCGGGTGTGGTCAACATCGTGGACCTCT  
 TGGTCACTGTGCTCAACCTCCTGGCCATCAGCCTGGGCTACTTCCGCCCAAGTGTACATGATCTCTT  
 CTACCCGGAGCGCAACACGCCCGCTACTTCAACAGCATGATCCAGGGCTACACCATGAGGAGGGAC

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG218543 representing NM\_152232  
 Red=Cloning site Green=Tags(s)

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MGPRAKTICSLFFLLWVLAEPAENSDFYLPGDYLLGGLFSLHANMKGIVHLNFLQVPMCKEYEVKVIQYN
LMQAMRFAVEEINNDSSLLPGVLLGYEIVDVCYISNNVQPVLVFLAHEDNLLPIQEDYSNYISRVVAVIG
PDNSESVMTVANFLSLFLLPQITYSAISDELKVRFPALLRTPSADHHVEAMVQLMLHFRWNWIIVLV
SSDTYGRDNGQLLGERVARRDICI AFQETLPTLQPNQNM TSEERQLVTIVDKLQSTARVVVVFSPDLT
LYHFFNEVLRQNF TGAVWIAS ESWAIDPVLHNL TELGHLGTFLGITIQSVPIPGFSEFREWGPQAGPPPL
SRTSQSYTCNQECDNCLNATLSFNTILRLSGERVVYSVYSAVYAVAHALHSLGCDKSTCTKR VVYPWQL
LEEIWKVNFTLLDHQIFFDPQGDVALHLEIVQWQWDRSQNPFQSVASYPLQRQLKNIQDISWHTVNNTI
PMSMCSKRCQSGQKKKPVGIHVCCFECIDCLPGTFLNHTEDEYECQACPNNEWSYQSETSCFKRQLVFLE
WHEAPTI AVALLAALGFLSTLAILVIFWRHFQTPIVRSAGGPMCFLMLTLLLVAYM VVPVYVGGPKVSTC
LCRQALFPLCFTICISCI AVRSFQIVCAFKMASRFPRAYSYWVR YQGPYVSMAFITVLK MVI VVIGMLAT
GLSPTTRTDPDDPKITIVSCNP NYRNSLLFNTSLDLLSVVGF SFAYMGKELPTNYNEAKFITLSMTFYF
TSSVSLCTFMSAYSGVLVTIVDLLVTVLNLLAISLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMRRD
  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**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\\_152232.1](#), [NP\\_689418.1](#)

**RefSeq Size:** 2521 bp

**RefSeq ORF:** 2520 bp

**Locus ID:** 80834

**UniProt ID:** [Q8TE23](#)

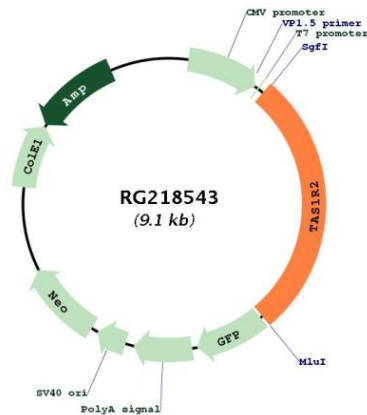
**Cytogenetics:** 1p36.13

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Taste transduction

**Gene Summary:** Putative taste receptor. TAS1R2/TAS1R3 recognizes diverse natural and synthetic sweeteners. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG218543