

## Product datasheet for **RG212678**

### OR51T1 (NM\_001004759) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OR51T1 (NM_001004759) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OR51T1
Synonyms:	OR11-26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212678 representing NM_001004759 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGACTAATAAAATGTATGCTATATATAAAGAATCTTAATTATTTTTCTTTCCTCATAGTTCAGTGTC  
TTCAACCAACCATGGCAATATCAATAACACCACTTCGTCTTCTCAAACCTCCTCCTACTGCATTCCC  
TGGGCTGGAATGTGCTCATGTCTGGATCCATTCCAGTCTGCTGTCTACACCATTGCCCTCTGGGA  
AACAGTATGATCTTTCTGTGCATCATTACTAAGCGGAGACTCCACAAACCATGTATTATTTCTCTCCA  
TGCTGGCAGCTGTTGATCTATGTCTGACCATTACGACCCTCCCACTGTGCTTGGTGTCTCTGGTTTCA  
TGCCCGGAGATCAGCTTTAAAGCTTGCTTCATTCAAATGTTCTTTGTGCATGCTTCTCCTTGCTGGAG  
TCCTCGGTGCTGGTAGCCATGGCCTTTGACCGCTTCGTGGCTATCTGTAACCACTGAACTATGCTACTA  
TCCTCACAGACAGGATGGTCTGGTGATAGGGCTGGTCATCTGCATTAGACCAGCAGTTTTCTTACTTCC  
CCTTCTTGTAGCCATAAACACTGTGTCTTTTATGGGGTTCACGAGCTTTCCCATCCATTTTGTACCAC  
CCAGAAGTGATCAAAACACATATCCAAACCTGGATCAGCAGTTTTTGGGGACTGTTTCTTACGCTCT  
ACCTGAATGGCACTGACGTATTGTTTATCTTTCTCTATGTCTGATCCTCCGTAAGTCTGTTCTGGGCAT  
TGTGGCCCGAAAGAAGCAACAAAAGCTCTCAGCACTTGTCTGTGCACATCTGTGCAGTCACTATTTTC  
TATGTGCCAATATTTATCTGCTCTTACCACCTGTGCTGAACCCTATCATTTACAGCTTGAAGACCAAGAC  
AATCCGCCAGGCTATGTTCCAGCTGCTCCAATCCAAGGTTTCATGGGTTTTAATGTGAGGGTCTTAGG  
GGAAGATGGGAT

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212678 representing NM\_001004759  
Red=Cloning site Green=Tags(s)

MTNKMYAIYIKNLNYFSFLIVQCLQPTMAIFNNTTSSSSNFLLTAFPGLECAHVWISIPVCCLYTIALLG  
 NSMIFLVIITKRRLHKPMYYFLSMLAAVDLCLTITTLPTVLGVLWFHAREISFKACFIQMFFVHAFSLLE  
 SSVLVAMAFDRFVAICNPLNYATILTDRLVIGLVICIRPAVFLPLLVAINTVSFHGGHELSPFCYH  
 PEVIKYTYSKPWISSFWGLFLQLYLNQTDVLFILFSYVLIILRTVLGIVARKKQKALSTCVCHICAVTIF  
 YVPLISLSLAHRLFHSTPRVLCSTLANIYLLLPVLPNPIIYSLKTKTIRQAMFQLLQSKGSWGFNVRGLR  
 GRWD

TRTRPLE - GFP Tag - V

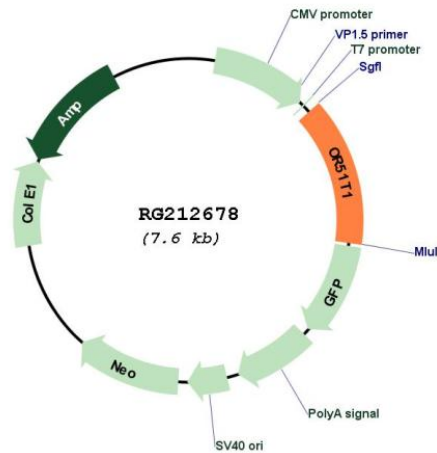
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001004759

<b>ORF Size:</b>	1062 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001004759.1</a> , <a href="#">NP_001004759.1</a>
<b>RefSeq Size:</b>	1065 bp
<b>RefSeq ORF:</b>	984 bp
<b>Locus ID:</b>	401665
<b>UniProt ID:</b>	<a href="#">Q8NGJ9</a>
<b>Cytogenetics:</b>	11p15.4
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Olfactory transduction
<b>Gene Summary:</b>	Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008]