

Product datasheet for **RR208764**

Tas1r1 (NM_053305) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tas1r1 (NM_053305) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tas1r1
Synonyms:	Gpr70
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208764 representing NM_053305
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCTTCTGGGCTGCTCACCTGCTGCTCAGCCTGCAGTTGGTCTACTGCTGGGCTTTCAGCTGCCAAA
 GGACAGAGTCCTCTCCAGGCTTCAGCCTCCTGGGGACTTCCTCCTTGACAGGTCTGTTCTCCCTCCATGG
 TGAAGTCTGCAGGTGAGACACAGACCTCTGGTACAAGTTGTGACAGGCCCGACAGCTTCAACGGCCAT
 GGCTACCACCTCTTCCAAGCCATGCGGTTCACTGTTGAGGAGATAAACTCCTCGGCCCTGCTCCCA
 ACATCACCTGGGGTATGAGCTGTACGACGTGTGCTCAGAATCTGCCAATGTGTATGCCACCCTGAGGGT
 GCTTGGCCTGCAAGGGCCCGCCACATAGAGATACAGAAAGACCTTCGCAACCACTCCTCCAAGGTGGT
 GCCTTCATCGGGCTGACAACACTGACCACGCTGCTACTACCGCTGCCTTGTGGGTCTTCTGATGC
 CCCTGGTCAGCTATGAGGCAAGCAGCGTGGTACTCAGTGCCAAGCGCAAGTCCCGTCTTCTCTGTAC
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 TCGCTCATTGGCAGCTACGGTGATTACGGGCAGCTGGGTGTGCAGGCGCTGGAGGAGCTGGCCGTGCCCC
 GGGCATCTCGCTCGCCTTCAAGGACATCGTGCCTTCTCTGCCCGGGTGGGTGACCCGAGGATGCAGAG
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 GAGACAAGTCCCTGGGCTGAAGGAGTTTGGAGTCTTATGTAGGGCTGTAACAGCTGCTCCAGCGCT
 TGCCCGGAGGGGTCTGGTGCAGCACTAACAGCTGTGCCGGGAGTGCCACACGTTACAGACTCGTAACA
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 TGCCTCACTGTCTCCAGTTCATCTGGACATAAATAAGACAAAAATCCAGTGGCACGGGAAGAACAATCAG
 GTGCTGTGTGAGTGTACCACGGACTGTCTGGCAGGGCACCACAGGGTGGTGTGGGTTCCACCACCT
 GCTGCTTGTGAGTGTGCTCCCTGCGAAGCTGGGACCTTCTCAACATGAGTGTGAGCTTACATCTGCCAGCC
 TTGTGGAACAGAAGAATGGGCACCAAGGAGAGCACTACTTGGTCCCACGCACGGTGGAGTTCTGGCT
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 CTGGCCTGTTGGCTGGCATTTCACACACCTGTAGTGAGGTGAGCTGGGGTAGGCTGTGCTTCCCTCAT
 GCTGGGTTCCCTGGTGGCCGGAAGTTGCAGCTTCTATAGCTTCTTGGGGAGCCACGGTGGCCCGGTGC
 TTGCTGGGTCAGCCCTCTTCTCTCGGGTTGGCATCTTCTCTCCTGCTGACAATCCGCTCCTTCC
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 GGTAAGGAAGTCCAGAGAATAAATGAAGCCAAATGTGTACCTTACGCTGCTCCTCAACTCGTA
 TCCTGGATCGCCTTCTTACCATGGCCAGCATTTACCAGGGCAGCTACCTGCCTGGGTCATATGTGCTGG
 CAGGGCTGACCACACTGAGCGGGGCTTACGCGTTACTTCTCCCAAGTGTATGTGATTCTCTGCCG
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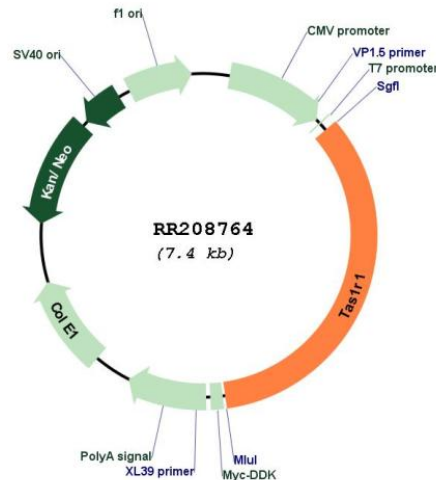
ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208764 representing NM_053305
Red=Cloning site Green=Tags(s)

MLFWAAHLLLSLQLVYCWFSCQRTESSPGFSLPGDFLLAGLFLSHGDCLQVRHRPLVTSCDRPDSFNHG
GYHLFQAMRFTVEEINNSSALLPNITLGYELYDVCSESANVYATLRVLALQGPRHIEIQKDLRNHSSKVV
AFIGPDNDHAVTTAALLGPFLMPLVSYEASSVLSAKRKFPSFLRTVPSDRHQVEVMVQLLQSFQWVWI
SLIGSYGDYQQLGVQALEELAVPRGICVAFKDIVPFSARVGDPRMQSMMQHQAQARTTVVVVFSNRHLAR
VFFRSVLANLTGKVVWASEDWAISTYITSVTGIQIGITVLGVAVQQRQVPGLKEFEESYVRAVTAAPSA
CPEGSWCSTNQLCRECHTFTRNMPTLGAFMSAAYRVYEAVYAVAHGLHQLLGCTSEICSRGPVYPWQL
LQQIYKVNFLHENTVAFDDNGDTLGYDIIAWDWNGPEWTFEIIIGSASLSPVHLDINKTKIQWHGKNNQ
VPVSVCTTDCLAGHHRVVVGGSHCCFECVPEAGTFLNMSSELHICQPCGTEEWAPKESTTCFPRTVEFLA
WHEPISLVLIAANTLLLLLVGTAGLFAWHFHTPVVRSAGGRLCFLMLGSLVAGSCSFYSFFGEPTVPAC
LLRQPLFSLGFAIFLSCLTIRSFQLVIIFKFSTKVPTFYRTWAQNHGAGLFIIVSSTVHLLICLTLWVMW
TPRPTREYQRFPHLVILECTEVNSVGFLLAFTHNILLSISTFVCSYLGKELPENYNEAKCVTFSLLLNFV
SWIAFFTMASIQGSYLPVNVLAGLTTLSGGFSGYFLPKCYVILCRPELNTEHFQASIQDYTRRCGTT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Plasmid Map:


ACCN: NM_053305

ORF Size: 2520 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_053305.1](#), [NP_445757.1](#)

RefSeq Size: 2679 bp

RefSeq ORF: 2523 bp

Locus ID: 29407

UniProt ID: [Q9Z0R8](#)

Cytogenetics: 5q36

MW: 93.5 kDa

Gene Summary: G-protein coupled receptor that is localized to the taste pore of taste buds and taste receptor cells; may act as a taste receptor [RGD, Feb 2006]