

Product datasheet for **RN216123**

Tg (NM_001270784) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tg (NM_001270784) Rat Untagged Clone
Tag: Tag Free
Symbol: Tg
Synonyms: Tgn
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN216123 representing NM_001270784
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATGACCTTGGTCTTGTGGGCTCGACTTTGTTGAGCTCAGTCTGCCTGGTAGCAGCCAACATCTTTG
AGTACCAAGTGGATGCACAGCCACTCCGCCCTGTGAGCTGCAAAGGGAGAAGGCCTTTCTGAAGCAGGA
TGAATATGTTCCACAGTCTCTGAAGATGGAAGTTTCCAGACAGTTCAGTGCCAAAATGATGGCCAATCT
TGCTGGTGTGTGGATTCTGATGGCAGGAAGTACCTGGCAGCAGGAGCTGGGAAGGCCAACAGCATGTC
TGTCTTCTGCCAGCTACACAAGCAACGAATCCTGCTGAGCAGCTACATTAACAGCACAGATGCTCTCTA
CCTTCTCAGTGCCAGGATTCAGGGAATATGCACCAGTGCAGTGCACCTGCAGCAAGTGAATGCTGG
TGTGTAGACACAGAGGGGATGGAGGTGTATGCCACCCGCCAGCAGGGGAGGCCAACACGGTGTCCAAGGA
GCTGTGAGATAAGAAGCCGCCGTCTCCTCCATGGAGTAGGAGACAAATCGCCACCCAGTGCATGCAGA
TGGGGAGTTTATGCCTGTCCAGTGAAGTTTGTCAACACCACAGACATGATGATTTTTGATCTGATTAC
AACTACAACAGCAACAAACCTCACCTCAAATGCCCTAGTACATCTGTTATACTGTGAAAAGAGTCAAGAG
CACCTTTAACATGTGCTGAAGAATCATCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001270784
Insert Size: 732 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001270784.1, NP_001257713.1</u>
RefSeq Size:	942 bp
RefSeq ORF:	732 bp
Locus ID:	24826
Cytogenetics:	7q34
Gene Summary:	precursor to thyroid hormone; required for thyroid hormone generation [RGD, Feb 2006] Transcript Variant: This variant (3) consists of only the first five exons plus an alternate 3' exon compared to variant 1. The resulting isoform (3) has a much shorter and distinct C-terminus compared to isoform 1. This variant has been described in PMID:2325666. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.