

Product datasheet for **RN205951**

Tgs1 (NM_001107904) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgs1 (NM_001107904) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tgs1
Synonyms:	Ncoa6ip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN205951 representing NM_001107904
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGTTGCGAGAAGTGGAGCCAGTGGCCGAAATGCTGCTCTTCATTGAAGACCAGGAGGAGTACA
 AGATCCTTTGCCTCTGCTCCCGAGCATTTGTAGAGGATCGGAAATTATACAACCTGGGATTAAGGCTA
 CTATGTCAAAGCAGTGGCAATAATGCAGGAGACCGAGTTACAGAAGAGGAGGAAGATGATCATTCCAGT
 GGCCTACGGAGTACACAGCGCAGATGAAGGTGACCTTGACCCCGAGGCCAAACTCATGAGAAGTATGG
 GCTTACCAGTCCGGTTTGGTAGGATGTCTACGCATGGGAGTTTGGAGGTCCATGAATGCAAGAAATAA
 AGCTAAAGTGAAGCAGAAGAGGAGAAAGCACCGCAAGCAGTATTTAGATGAAATGTGCGGGAGGACTGG
 AGAAATGACTGTGAAGAAGATGACCTTGTAGTCTCCGATGACCCATCCTCAGTTGAACACTGTGAGAACA
 ACAGCGCATGTGAAATTCAGAGCAAAACAGATGCTGAAGCAGAAAACCTTCTGTGAAAATACACTGGC
 TCCAAAGCTAGAGGTACAGAGAATTGGGAAAAGTACTGGAATGAATACGGAGAAGGGCTGTTGTGGCAA
 AGCTGGCAAGAAAAATATCCAGACCAGACTGTCTTCTGAACCCCTGGAACCTTCTGATACAAAGGAAG
 AATGGGAGCAGCACTACAGTCAGCTTTATTGGTATTACTTGGAGCAGTTCAGTACTGGGAGCTCAGGG
 CTGGACTTTCTGCTGCCTCACAAAACGTGATAAAGATGTTTGCACATCTCATACACAGGTTGACCAGAAC
 GCTGAGAGCAGCCTGAAAGCAGATGGAACGACTTTGTCATCTTACCTAACACAGCTGAGGATGAAAGCC
 TTGGCTCAAATGACAATGACCACAATGAAATATTGCTGGGATTAATAAGATAACTCTGAGTGCAGAGGA
 AGTAGAACAGAGCCAGTTAGATTCCTCTGAACACTGTGACAAGCCACTCAGTGAAGTCACTGGGAAAAG
 TGCCCTGCCTCTGGAGGAAGTACTCCTGTGATGGAACACCAAGGAAAGTGAATATCTGAGAACAGAA
 GCTCAGCAACACAGCTCAAGAGTTGCAGGAATCTTTCAGGAACGAATACAAGTAAACATGACCACACCA
 TAACGGGACTGATGGAAACGAGAGTGAAGATGACCCCTGATCATAAGCCTAGCAAAATGAAGAGAAGC
 CATGAGTTGGACATTGATGAAAACCCAGATTTCGGAAGTTGATGACAATGGTTTCCATCTAGGATTCAAGC
 ATGGCTCAGGACAAAAATATGGTGAATTCCAAATTTTCAGTCGTCGACAGGTGAGGTATCTAGAGAAGAA
 TGTGAAATACAAGTCAAAGTACCTGGACATGCGCAAGCGGATGACTGTGAAGAACAAGCACATCGTCTTC
 TCCGAGGAGTCAAGGAAACCTTTATCAGGAAGAGTAAAGTACGGAGTAAAGTGGAAAAATTCCTAAAAT
 GGGTTAATGAGCCTGTAGATGAGGAGATATCACAGGAGCCTCTCTCTACAACAAAATGCAAGACACTTG
 CACAAGCAGTACTCTGAGGAACAAGACATGTCCATGGAGAAAACCTGATGGTCTGATGGAGACCAGAGAT
 CCAGAACCTGAAAACGTGACAGCATCTCTTTCAGCCAGTGAACCTGAAGCAGAAAAGAGTGAAGGGGGCT
 CCTTAGTAGCAGCTGTTCCAGAGAACTGTTCAACTGAAGGAGTAGCAAACTCTCCCGTGCAGAAGCAGA
 AGTAGAAAATAAGAAGAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGATAAATGGCCTACCACCT
 GAAATAGCTTCTGTTCCGGAGCTGGCAAAACTGGGCCAGAGATACAGGCTTTTCTCTCGCTTTGATG
 ATGGGATCAAATGGACAAAGAGGGCTGGTTTTTCAGTCACTCCTGAGAAGATTGCTGAGCACATAGCTGG
 CCGCGTCACTCAGTCTTCAACTGTGACATCATAGTAGATGCTTCTGTGGGGTTGGAGGAAATACCATT
 CAGTTTGCCTTGACAGGAAAAAGAGTGAATGCCATTGATATCGACCCTGTTAAAATTGATCTTGTCTCGGA
 ATAATGCTGAAGTTTATGGGGTAGCAGATAAAATAGAGTTTATCTGCGGAGATTTCTGCTCTTGGCTCC
 ATGTTTAAAGGCTGACGTTGTCTTCTGAGTCCACCGTGGGGGGCCAGATTATGCCACTGCGGAGACC
 TTTGACATTAGGACCATGATGTCTCCTGATGGCTTTGAAATTTTCAGGCTTTCCAGAAAGTCACTAATA
 ATATTGTTATTTTCTTCAAGAAATGCTGATGTTGACCAGTGGCATGTTGGCTGGGCTGGAGGACA
 AGTAGAAAATAGAACAGAACTTTCTTAACAACAAGTTAAAGACAATCACTGCATATTTTGGTACCTGATC
 AGAAGACCAGCACTTCGAAGTGCTGAGGCG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001107904
Insert Size: 2553 bp

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).
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:	NM_001107904.1 , NP_001101374.1
RefSeq Size:	4305 bp
RefSeq ORF:	2553 bp
Locus ID:	312947
UniProt ID:	P85107
Cytogenetics:	5q12
Gene Summary:	Catalyzes the 2 serial methylation steps for the conversion of the 7-monomethylguanosine (m(7)G) caps of snRNAs and snoRNAs to a 2,2,7-trimethylguanosine (m(2,2,7)G) cap structure. The enzyme is specific for guanine, and N7 methylation must precede N2 methylation. Hypermethylation of the m7G cap of U snRNAs leads to their concentration in nuclear foci, their colocalization with coilin and the formation of canonical Cajal bodies (CBs). Plays a role in transcriptional regulation (By similarity).[UniProtKB/Swiss-Prot Function]