

Product datasheet for **MC222035**

Tgs1 (NM_054089) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tgs1 (NM_054089) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tgs1
Synonyms:	D4Ertd800e; Ncoa6ip; Pimt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222035 representing NM_054089
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGTTGCGAGAAGTGAACCATGTGGCCGAAATGCTGCTCTTCATTGAAGACCGCAGGAGGAGTACA
 AGATCCTTTGCCTCTGCTCCCGGCATTTGTGGAAGATCGAAAATTGTACAATTTGGGATTAAGGCTA
 CTATGTCAAAGCAGTGGCAATAATGCAGGAGACCAAGGTACAGAAGAGGAGGAAGATGGTCATTCCAAT
 GGCCTGCAGAATCACATAGCCAAATGAAAGTGACCTTGATTCTGAGGCCAACTCATGAGAAGTATGG
 GACTACCAATTCAGTTTGGTAGAATGTCTTACATGAGAATTTTGAGATGTCTATGAATGCAAGAAATAA
 AGCTAAAGTAAAGCAAAAAGAAGAAAACACCAGAAGCGGTATTTAGATGAAATGGTTCCGGGATCTGG
 AGAAATGACTATGAAGAAGATGACCTTGTAGTGTGAGTACCCATCTTCAGTTGAACACTGTGAGAACA
 ACAGAACATGTGAAATTCAAAGCAAAGCAGGTTCTGAAGTAGAAAACCTTCTGTTGAAAATACACTGGC
 ACCAAAGCTAGAGGTCCCAGAGAATTGGGAAAAGTACTGGAATGAATATGGAGAAGGCTGTTGTGGCAA
 AGCTGGCAGGAGAAGTATCCAGACCAGACACTGTCTTCTGAGCCTTGAACCTCCCTGATACAAAGGAAG
 AATGGGAACAACATTACAGTCAGCTTTATTGGTATTATTTGGAACAATTCAGTATTGGGAAGCTCAGGG
 CTGGACTTTTACTGCCTCACAAAACGTGATAAAGATGTTTACACATCTCACACAGAAGTAGACCAGAAT
 GCTGAGAGCAGCCTGAAAGCAGATGTAATGACTTTTTTCATCTTCCACCTAATATAGTTGAGGATGAAATCC
 CTGGCTCAAATGATAATGACCACAATGAAATTTACTGCGATTAACAACATAACTGTGAGTGCAGAGAA
 AGTAGAACAGAGCCAGTTAGATTCCTCTCAACACTGTGACGAGCCGCTCAGTGAATCACTGGGAAAAG
 TGCCCTGCCTCTGGAGGAAGTACTCCTGTAATGGAACACCCAAAGAAAATGATATATCTGAGAACAGAA
 GCTCAGACCAACCAGCTAAAGAGTTGCAGGAGTCTTCAGGAACAATAAAGGTAACATGACCACACCA
 TAATGGGCTGATGGACATGAGAGTGACGATGACCCACCTGAGCATAAGCCCAGCAAAGTGAAGAGAAGC
 CATGAATTGGATGTTGATGAAAACCCAGATTGAGAAGTTGATGACAATGGTTTCTTCTAGGATTCAAGC
 ATGGCTCAGGACAAAATATGGTGAATTCCAAATTTTCAGCCATCGACAGGTGAGTATCTAGAGAAGAA
 TGTGAAATACAAATCAAAGTACCTGGATCTGCGCAAGCAGATGCCTGTGAAGAGCAAGCACATCTGTTC
 ACCGAGGACTCAGGAAACCTTTTGTGCTGTGTAAGAGTAAAGTACGGAGTAAGGTAGAAAAATCTCTAA
 AATGGGTTAATGAACGAGTAGATGAGGAGACATCACAGGATTCTTTTCTCAAACAAAATGCAAGACAC
 TTGCACAAGCAGTACTCAGAGGAACAAGACATGCTTGGAGAAAGCTGACAACCTGATGGAGACCAGA
 GATCCAGAACCTGAAAAATGTCAGATCATCTCTCAGCCACTGAACTTGAAGCAGAAAAGAGTGAAGTAG
 GCTCCTTAGTAGCAACTGTTCCAGAGAAGTGTCAACTGAAGAAAATACCAAACCTCCTCCATGCAGAAAC
 AGAAGTTGAAATAAAGAAGAAAAGAAGAACAAGAACAAGAAAAGATAAATGATCTACCACCTGAAATA
 GCTTCTGTTCCAGAGCTGGCTAAATACTGGGCCAGAGATACAGGCTCTTCTCTCGCTTTGATGATGGAA
 TCAAATTTGGACAAAGAGGGCTGGTTTTTCAGTCACTCCTGAGAAGATTGCTGAACACATTGCTGGCCGTG
 CAGTCAGGCCCTCAGATGTGACGTTGTAGTAGATGCTTCTGTGGAGTTGGAGGAAATACCATTAGTTT
 GCCTTAACCGGAAAAGAGTGAATGCTATTGATATCGACCCTGTTAAAATGATCTTGTCTCGGAATAATG
 CTGAAGTTTATGGGATAGCAGATAAAAATAGAGTTTATCTGTGGAGATTTCTGCTTGGCTCCATGTTT
 AAAAGCTGATGTTGTGTTCCCTAAGTCCACCTTGGGGAGGGCCAGATTATGCTACTGCAGAGACCTTCGAC
 ATTAGGACAATGATGCTCCTGATGGCTTTGAAATTTTCAGGCTTCCAGAAAGTCACTAATAATATTG
 TTTATTTTCTTCAAGAAATGCTGATATTGACCAGGTGGCATCCTTGGCTGGGCTTGGAGGACAAGTGGAA
 AATAGAACAGAACTTTCTTAACAACAAGTTAAAGACCATCACTGCATACTTTGGTACCTGATCAGAAGA
 CCAGCACTTCTGAAGACCAGCACTTCTGAAGCGGAAGT**GTA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_054089
Insert Size: 2562 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_054089.4 , NP_473430.3
RefSeq Size:	4389 bp
RefSeq ORF:	2562 bp
Locus ID:	116940
UniProt ID:	Q923W1
Cytogenetics:	4 1.99 cM
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]