

Product datasheet for **MG221910**

Taf1 (NM_001081008) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Taf1 (NM_001081008) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Taf1
Synonyms:	250kDa; AU015687; B430306D02Rik; Ccg-1; Ccg1; KAT4; N-TAF1; Taf2a; TAFII250
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221910 representing NM_001081008 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCCGGGTGGGCTGGGCTGCTGCAGGACAAGGGTGGCGGTAGCCCTTCCGTCGTCATGTCCGACA
CAGACAGCGACGAAGAGTCGGCTGGTGGAGGCCATTTCTCTAACTGGGTTCTGTTCGGCAACATCAA
TGGAGCAGGGCAGTTGGAAGGCCAAAGCGTCTTGGATGACGAGTGAAGAAGCATCTTCCGGCTTGGG
GCTTTGGGCTTGGCAGCCTGATCACTGAACCTCACAGCAATGAAGAATTGTCCGGGAGTGATGGTGCC
TGTTAAATGATGAAGGATGGATTAGGAGTAGAGAGGATGCTGTGGACTATTCTGACATCAACGAGGTGGC
AGAAGATGAAAGTAGAAGATACCAGCAGACAATGGGAAGCTTGCAACCCCTTTGCCACACAGATTATGAT
GAAGATGACTATGATGCTGATTGTGAAGATATTGATTGCAAATTGATGCCTCCTCCACCTCCACCCCGAG
GACCACTGAAGAAAGAGAAGGACCAAGATGATATTACTGGTGAGAAAGTGGACTTCAGTAGTTTCTCTGA
CTCAGAACTCTGAGATGGGACCTCAGGACGACGACAGTCAGAACTAAGGATGGACAGCTGACCCTACCA
TTGGCTGGGATTATGCAGCATGATGCCACGAAGCTGTTGCCAAGTGTACAGAACTTTTCCAGAATTTA
GGCCTGGAAGGTGTTACGCTTTTTACGGCTTTTTGGACCGGGGAAGAATGTTCCATCTGTTGGAGGAG
TGCTCGGAGAAAGAGGAAAAAGAAGCACCGTGAGCTTATACAGGAAGGGCAGGTCCAGGAAGAGGAGTGC
TCAGTGGAAATTAGAAGTCAACCAGAAATCTCTGTGGAACATGACTATGCTCCTCCTCCACTTCCAGACC
AGTGTCTCTGATGATGAAATCACAATGATGGCTCCTGTGGAGTCCAAGTTTTCCAGTCAACTGGAGA
CACAGATAAAGTAATGGATACCAAGCCAAGAGTGGCCGAATGGCGTTATGGACCTGCCCGCTGTGGTAT
GATATGCTAGGTGTTCTGAAGATGGCAGTGGCTTTGATTATGGCTTCAAATGAAGAAGACTGAACATG
AATCTACAATAAAATGCAACATAATGAAGAAATTAAGGAACTTGAGGAAAACAGTGGCGTCGATCTTCT
GGCAGATGAAAACCTTCTAATGGTGACACAGCTGCATTGGGAAGATGATATCATTTGGGATGGGAGGAT
GTCAAACACAAAGGAACAAAACCTCAGCGTGCGAGTTTGGCAGGCTGGCTTCTTCCAGTATGACTAGGA
ATGCCATGGCCTACAATGTGCAGCAAGGTAGACCCTGTATCAAAAAACCAACTAGCCAAAACAAAGCAAAA
CACACATACAAAACTCCATTAGCCAGCCCTCAGGCTCACTTACACTACATTGGATGATGATAAACCT



[View online >](#)

TGGTACTCCATTTTCCCCATTGATAATGAAGATCTGGTATATGGACGTTGGGAGGACAATATCATTGGG
ATGCTCAGAACATGCCTAGAATTTGGAGCCTCCTGTTTTGACACTTGATCCCAATGATGAGAACTTGAT
TTTGGAGATCCCTGATGAGAAGGAAGAAGCTACTTCTAATTCTCCTTCTAAGGAGAATAAGAAAGAATCA
TCTCTGAAGAAGAGTGAATTTCTTAGGAAAAACAGGAGTCAATCAAGGAAGAGCCACAGCAGAACATGT
CTCAGCCAGAAGTGAAGATCCATGGAATCTCTCCAATGATGAGTATTACTATCCAAGCAACAGGGCCT
TCGAGGTACTTTTGGAGGAAATATTATCCAGCACTCAATCCAGCTGTAGAATTACGGCAGCCCTTCTTT
CCTACCCACATGGGACCCATCAAACCTCGGCAGTCCATCGCCACCTCTAAAAAGTACTCCTTTGGGG
CACTATCTCAGCCAGGTCACACTCAGTTCAGCCTTTGCTGAAGCACATCAAAAAAGGCAAGATGAG
AGAACAAGAGAGGCAAGCCTCGGGTGGTGGAGAGATGTTTTTATGCGCACACCTCAGGATCTCACAGG
AAAGATGGAGACCTTATTCTTGCTGAATACAGTGAAGAAAATGGACCATTAATGATGCAAGTTGGCATGG
CAACCAAGATAAAAACTACTATAAGCGGAAAACCTGGAAAAGATCCTGGAGCCCCAGATTGCAAATACGG
AGAAAAGTGTATTGCCATACATCGCCTTTCTGGGTTCTTTCATCCTGGCCAGTTACTGCAGGCATTT
GAGAACAACCTTTTTCTGCTCCAATTTATCTTCATAAGATGCCAGAATCTGACTTCTGATCATTGCAA
CAAGGCAGGGTACTTTATCGAGAATTAGTGGATATTTTTGTTGTTGGCCAGCAGTGTCCCTTATTTGA
AGTTCTGGTCTAACTCCAAAAGGGCCAATACACACATCCGAGATTTTCTTCAGTTTTTATTTACCGG
CTTTTTGGAAGAGTAAAGATAGCCACCGAGGATACGGATGGAAGATATAAAGAAAGCCTTTCTTCAC
ATTCAGAAAGCAGCATCCGGAAGAGGCTAAAGCTCTGTGCCGACTTCAAACGTACAGGGATGGATTCAAA
CTGGTGGGTGCTGAAGTCTGATTTTCTGTTTACCAACGGAAGAGGAGATCCGAGCTATGGTATCCCCAGAA
CAGTGTCTGTGCTTATTATAGCATGATAGCTGCTGAACAGAGACTAAAGGATGCTGGCTATGGAGAGAAGT
CCTTTTTGCTCCTGAGGAAGAAAATGAAGAAGATTTCCAGATGAAGATTGATGATGAAGTTCTGACTGC
TCCTTGGAACTACAAGGGCTTTCATTGCTGCCATGAAGGGCAAATGTCTCCTGGAGGTGACTGGAGTA
GCAGATCTACAGGCTGTGGTGAAGGTTCTCCTATGTGAAGATTCAAAACAACCGACACAACAGAAGG
ATGATAAAGAGCCTCAGCCAGTGAAAAAGACAGTCAAGGAACAGATGCAGACCTTCGTCGCCTCTCT
GAAAAATGCCAAGCAGCTTCTTCGTAATTTGGTGTGCCTGAGGAGGAGATTA AAAAGTTGCTCCCGTGG
GAAGTTATTGATGTGGTACGTACATGTCAACAGAACAGGCTCGCTCTGGAGAGGGGCCATGAGTAAAT
TTGCTCGTGGATCAAGGTTTTAGTGGCTGAGCATCAAGAACGTTACAAAGAGGAATGTCAGCGCATCTT
TGACCTACAGAACAAGGTTTTGTCATCAACAGAGGCTTATCAACTGACACAGACAGCAGCTCAGCTGAA
GACAGTACTTTGAAGAAATGGGAAAGAATATTGAGAATATGCTGCAGAACAAGAAAACAAGTTCTCAGC
TGTCTCGGAGCGGGAGGAGCAGGAACGGAAGGAACTCCAGCGGATGCTACTGGAAGCTGATGGTGAAGC
AGCAGGCTCAGCAGCAGCAGGAAACAATCACAGAGATGATGACACAGCTTCAGTGACCAGCCTAACTCT
TCTGCCACTGGCCGCTGTCTCAAGATTTATCGAACATTTGAGATGAGGAGGGGAAGGAATATGTTCTGTT
GTGAGACAGTCCGAAAAGCAACTGTTATTGATGCTTATGTACGCATACGGACCACAAAAGATGAAGAGTT
CATTGAAAAATTTGCCCTTTTTGATGAGCAACCCGAGAAGAGATGAGAAAAGAACGGCGGAGGATTCAA
GAGCAATTGAGGAGACTTAAACGGAACAGGAAAAGGAAAAGCTAAAGGGGCCTCCTGAGAAAAGCCCA
AAAAATGAAGGAACGGCCTGACTTAAAATTGAAATGTGGAGCATGTGGTGCCATCGGGCACATGAGGAC
AAATAAATTTGCCCTTTTATTATCAAACAAATGCTCCACCTTCTAACCTGTTGCTATGACCGAGGAA
CAAGAGGAAGAGCTGAAAAGACAGTATTTCATAATGATAATGAAGAATTATCAAGGTTGAAGGGACCA
AGATCGTTTTGGCAAACAGCTAATTGAGAGTGCAGATGAAGTTCGAGAAAAATCTCTGGTCTGAAGTT
CCCTAAACAACAACCTTCCCCCAAGAAAAACGCGGTTGGAACCACTGTTCACTGTACTATTGAAAT
AGACCTCATAAATCCATCCACCGCGCCGACAGACCCGATGGTGACACTGTCTTCTATCTTGGAGTCTA
TTATCAATGACATGAGAGATCTTCCAAATACATACCCTTTCCATACTCCAGTTAATGCAAAGGTTGTAAG
GGATTACTATAAAATCATCACTCGACCAATGGATCTACAGACACTCCGTGAAAACGTGCGCAAACGCCTT
TATCCGCTCTCGGAAGAATTGAGAGAATTTGGAGCTAATTGTGAAAAACAGTGCAACTTATAATGGAC
CAAAGCACTCACTGACTCAGATTTCTCAATCCATGCTGGATCTCTGCGATGAAAACTCAAAGAGAAAGA
GGATAAGTTGGCACGTTTAGAGAAAGCTATCAACCCCTTGCTTGACGATGATGATCAAGTAGCCTTTTCT
TTTATTCTGGATAACATTGTCACTCAGAAAATGATGGCAGTTCAGATTCTTGGCCATTTTATCACCCAG
TTAATAAGAAATTTGTTCCAGATTATTACAAGTATTGTCAGTCCAATGGATTTGGAGACTATACGTAA
GAATATCTCCAAGCACAATACCAGAGTCGAGAGAGCTTTCTAGACGACGTAACCTGATTCTGGCCAAC
AGTGTTAAGTACAATGGCCTGAGAGTCAGTATACTAAGACTGCTCAGGAGATTGTGAACGTTTGTCAAC
AGACATTAAGTGAATGATGAACATTTGACTCAACTTGAGAAAAGATATTTGTACAGCTAAAGAAGCAGC
TCTGGAGGAAGCAGAATTAGAAAGTCTGGACCCATGACTCCAGGGCCATATACACCTCAGCCTCCTGAT
TTGATGATAACAACACATCCCTCAGTGTCTTCGAGATGCTTCTGTATATCAAGATGAGAGCAATCTGT

CTGTCTTGATATTCACAGTCTACTTCAGAAAAGCAGCTAACACAGGAAGGTGGAGATGGAGATGGTGA
TCTTGCAGATGAAGAGGAAGGAAGTGTACAACAGCCCCAAGCCAGTGTCTTGTATGAGGATTTGCTTATG
TCTGAAGGCGAAGATGATGAGGAAGATGCTGGGAGTGACGAAGAAGGAGATAACCCTTTCTTTGCTATTC
AGCTAAGTGAAAGTGAAGTACTCTGATGTGGAATCTGGCAGTTTAAGACCCAAACAGCCCCGTGTGCT
TCAAGAGAATACAAGGATGGGCATGGAAAATGAAGAAAGCATGATGTCTATGAGGGAGATGGTGGGGAC
GCTTCCCGTGGTTGGAGGATAGCAACATCAGTTATGGGAGCTATGAGGAGCCTGATCCCAAGTCCAACA
CCCAGGATACCAGCTTTCAGCAGCATCGGTGGGTATGAGGTATCAGAGGAGGAAGAAGATGAGGAAGAGCA
CGGCTCTGGGCCAGCGTACTAAGCCAGGTCCACCTCTCAGAGGACGAGGAGGACAGTGAAGATTCCAC
TCCATTGCCGGAGACTGATTTGGACTCTGATGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG221910 representing NM_001081008
Red=Cloning site Green=Tags(s)

MGPWAGLLQDKGGGSPSVVMSDSDSDEESAGGGPFLSLTGFLFGNINGAGQLEGEVLDDECKKHLAAGL
ALGLGSLITELTANEELSGSDGALVNDEGWIRSREDAVDYSDINEVAEDESRRYQQTMSLQPLCHTDYD
EDDYDADCEDIDCKLMPPPPPPGPKKEKQDDITGEKVDFSSSSDSESEMGPDAAQSESKDGLTLP
LAGIMQHDATKLLPSVTELFPEFRPGKVLRLFLFGPGKNVPSVWRSARRRKRKKHRELIEGQVQEEEC
SVELEVNQKSLWNYDYAPPLPDQCLSDDEITMMAPVESKFSQSTGDTDKVMDTKPRVAEWRYGPARLWY
DMLGVPEDGSGFDYGFMMKTEHESTIKCNIMKLRKLEENSGVDLLADENFLMVTQLHWEDDIWDGED
VKHKGTPQRASLAGWLPSSMTRNAMAYNVQGRPCIKKPTSQTKQNTHTQNSISQPSGLHTLDDDKP
WYSIFPIDNEDLVYGRWEDNIWDAQNMPRIEPPVLTLPDENLILEIPDEKEEATSNSPSKENKES
SLKKSRIILLGKTGVIKEEPQNMSPQPEVKDPWNLSDNDEYYPKQQLRGTFFGNI IQHSIPAVELRQPF
PTHMGPILKLRQFHRPPLKYSFGALSQPGHVSQPLKHKKAKMREQERQASGGGEMFFMRTPQDLTG
KDGDILAEYSEENGLMMQVGMATKIKNYKRPKGDGAPDCKYGETVYCHTSPFLGSLHPGQLLQAF
ENNLFRAPILYHKMPESDFLIIRTRQGYFIRELVDIFVVGQCCPLFEVPGPNSKRANTHIRDFLQVFIYR
LFWKSKDRPRRIRMEDIKKAFPSHSESSIRKRLKLCADFRTGMDSNWWWLKSDFRLPTEEEIRAMVSPE
QCCAYYSMIAAEQRLKDAGYGEKSFFAPEEENEEDFQMKIDDEVRTAPWNTTRAFIAAMKGCCLLEVTGV
ADPTGCGEGFSYVKIPNKPTQQKDDKEPQVVKTVTGTADLRRLSLKNAKQLLRKFGVPEEEIKKLSRW
EVIDVVRTMSTEQARSGEGPMSKFARGSRFSVAEHQERYKEECQRIFDLQNKVLSSTEVLSSTDSSSAE
DSDFEEMGKNIENMLQNKKTSSQLSREREEQERKELQRMLLEADGEAAGSAAAGNNHRDDDTASVLSLNS
SATGRCLKIYRFRDEEGKEYVRCETVRKATVIDAYVRI RTTKDEEFIRKFALFDEQHREEMRERRRIQ
EQLRRLKRNQEKEKLGKPEKPKMKKERPDLLKCGACGAIGHMRTNKFCLYYQTNAPPSNPVAMTEE
QEELEKTVIHNDNEELIKVEGTKIVLGKQLIESADEVRRKSLVLKFPKQQLPPKKRRVGTTVHCDYLN
RPHKSIHRRRTDPMVTLSSILESIINDMRDLPNTYFHTPVNAKVVDYKIIITRPMDLQTLRENVKRL
YPSREEFREHLELIVKNSATYNGPKHSLTQISQSMLDLCEKLEKEDKLARLEKAINPLDDDDQVAFS
FILDNIIVTQKMAVPDSWPFHHPVNKKFVPDYKIVVSPMDLETIRKNI SKHKYQSRESFLDDVNLILAN
SVKYNPESQYTKTAQEI VNVCHQTLTEYDEHLTQLEKIDCTAKEAALEEALESLEDPMTGPYPPTPPD
LYDNNTSLSVSRDASVYQDESNSVLDIPSATSEKQLTQEGGDGDGLADEEEGTVQQPQASVLYEDLLM
SEGEDDEEDAGSDEEGDNPFFAIQLSESGSDSDVESGSLRPKQPRVLQENTRMGMENEESMMSYEGDGGD
ASRGLEDNSISYGSYEEDPKSNTQDTSFSSIGGYEVSEEEDEEEQRSGPSVLSQVHLSDEEDSDFH
SIAGDLDLSDSE

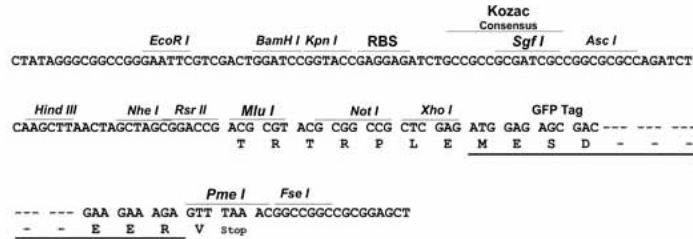
TRTRPLE – GFP Tag – V

Restriction Sites:

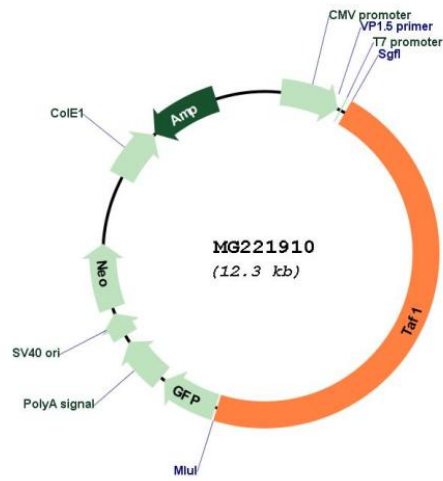
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001081008
 ORF Size: 5706 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:	<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_001081008.1 , NP_001074477.1
RefSeq Size:	8060 bp
RefSeq ORF:	5709 bp
Locus ID:	270627
Cytogenetics:	X 44.29 cM
Gene Summary:	Largest component and core scaffold of the TFIID basal transcription factor complex (PubMed:10438527). Contains novel N- and C-terminal Ser/Thr kinase domains which can autophosphorylate or transphosphorylate other transcription factors. Phosphorylates TP53 on 'Thr-55' which leads to MDM2-mediated degradation of TP53. Phosphorylates GTF2A1 and GTF2F1 on Ser residues. Possesses DNA-binding activity. Essential for progression of the G1 phase of the cell cycle. Exhibits histone acetyltransferase activity towards histones H3 and H4. [UniProtKB/Swiss-Prot Function]