

Product datasheet for **RG240220**

TAF1 (NM_001286074) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAF1 (NM_001286074) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAF1
Synonyms:	BA2R; CCG1; CCGS; DYT3; DYT3/TAF1; KAT4; MRXS33; N-TAF1; NSCL2; OF; P250; TAF(II)250; TAF2A; TAFII-250; TAFII250; XDP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240220 representing NM_001286074. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
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 GGGGACAGTGACTTGGACTCTGATGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG240220
 Blue=ORF Red=Cloning site Green=Tag(s)

MGPGLDLLLRTAATITAAAIMSDTSDSDSAGGGPFLAGFLFGNINGAGQLEGEVLDDECKHLAAGL
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 STDTDSSAEDSDFEEMGKNIENMLQNKKTSSQLSREREEQERKELQRMLLAAGSAASGNNHRDDDTAS
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 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

Sgfl-Mlul

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).
RefSeq:	NM_001286074.1 , NP_001273003.1
RefSeq Size:	7740 bp
RefSeq ORF:	5628 bp
Locus ID:	6872
UniProt ID:	P21675
Cytogenetics:	Xq13.1
Protein Families:	Protein Kinase
Protein Pathways:	Basal transcription factors
MW:	215.4 kDa
Gene Summary:	<p>Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is the basal transcription factor TFIID, which binds to the core promoter to position the polymerase properly, serves as the scaffold for assembly of the remainder of the transcription complex, and acts as a channel for regulatory signals. TFIID is composed of the TATA-binding protein (TBP) and a group of evolutionarily conserved proteins known as TBP-associated factors or TAFs. TAFs may participate in basal transcription, serve as coactivators, function in promoter recognition or modify general transcription factors (GTFs) to facilitate complex assembly and transcription initiation. This gene encodes the largest subunit of TFIID. This subunit binds to core promoter sequences encompassing the transcription start site. It also binds to activators and other transcriptional regulators, and these interactions affect the rate of transcription initiation. This subunit contains two independent protein kinase domains at the N- and C-terminals, but also possesses acetyltransferase activity and can act as a ubiquitin-activating/conjugating enzyme. Mutations in this gene result in Dystonia 3, torsion, X-linked, a dystonia-parkinsonism disorder. Alternative splicing of this gene results in multiple transcript variants. This gene is part of a complex transcription unit (TAF1/DYT3), wherein some transcript variants share exons with TAF1 as well as additional downstream DYT3 exons. [provided by RefSeq, Oct 2013]</p>