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Product datasheet for SC117338

TFIIA2 (GTF2A2) (NM_004492) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFIIA2 (GTF2A2) (NM_004492) Human Untagged Clone
Tag:	Tag Free
Symbol:	TFIIA2
Synonyms:	HsT18745; T18745; TF2A2; TFIIA; TFIIA-12; TFIIA-gamma; TFIIAS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117338 sequence for NM_004492 edited (data generated by NextGen Sequencing) ATGGCATATCAGTTATACAGAAATACTACTTTGGGAAACAGTCTTCAGGAGAGCCTAGAT GAGCTCATACAGTCTCAACAGATCACCCCCCAACTTGCCCTTCAAGTTCTACTTCAGTTT GATAAGGCTATAAATGCAGCACTGGCTCAGAGGGTCAGGAACAGAGTCAATTTCAGGGGC TCTCTAAATACGTACAGATTCTGCGATAATGTGTGGACTTTTGTACTGAATGATGTTGAA TTCAGAGAGGTGACAGAACTTATTAAAGTGGATAAAGTGAAAATTGTAGCCTGTGATGGT AAAAATACTGGCTCCAATACTACAGAATGA Clone variation with respect to NM_004492.2

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004492 unedited
TTGTATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGGTTCTGCGGTTTCTGCG
GCGGCTAGAGAGGTGGTCGGAGAAGTAGGAACCTCCTGCCGGGCTCGTGGCGGCTTCTGT
CCGCTCCGCGGCGGGAAGCGCCTTCCCCACAGGACATCAATGCAAGCTTGAATAAGAAAA
ACAAATTCTTCCTCCTAAGCCATGGCATATCAGTTATACAGAAATACTACTTTGGGAAAC
AGTCTTCAGGAGAGCCTAGATGAGCTCATACAGTCTCAACAGATCACCCCCCAACTTGCC
CTTCAAGTTCTACTTCAGTTTGATAAGGCTATAAATGCAGCACTGGCTCAGAGGGTCAGG
AACAGAGTCAATTTCAGGGGCTCTCTAAATACGTACAGATTCTGCGATAATGTGTGGACT
TTTGTACTGAATGATGTTGAATTCAGAGAGGTGACAGAACTTATTAAAGTGGATAAAGTG
AAAATTGTAGCCTGTGATGGTAAAAATACTGGCTCCAATACTACAGAATGAATAGAAAAA
ATATGACTTTTTTACACCATCTTCTGTTATTCATTGCTTTTGAAGAGAAGCATAGAAGAG
ACTTTTTATTTATTCTAGAATTGCAGAAATGACTACACTGTGCTATACCAGAGAATTCCA
GTAGAAAGAAACTTGTAACTCTGTAGCCTCTTACATCACCTTTATTATACAGCATGAAAA
AACCATAACTTCTTTTTAGGGACAAAAGNTGNTGCCCTTCTAAGAACCTTNCTTATAAAC
TCATNTAAAACTCTGAGTATAACTGGTGAAGCTATNAGGTAGCATATGAAGAATAGATAT
GCATTTTCCATTTCTTGCAGGACATGATGCCTTTCAAATGCTATTCATAAGNCATGTTTG
GC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004492 unedited
AGGTCCTATCTCTGNACCGCGGCCCGCTTTCTAGNANCGAGTTTTTTCTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAACACCCGACAAAACATGACTTTATTGA
AATAAGCTTTCTGAAAGGGCATCATGTTCCTTGCAAAGGAAAGGGGAAAAGGCATTATCT
AATATCTTCATATTGCTACCTTAATAGCTTCACCAGTTATTACTCAAAGTTTTAAAAGGA
GTTTATTAAAAAAGGTTTTTAGGAAGGCAACAACTTTTGTCCTTAAAAAAAAGTTATGGT
TTTTCATGCTGTATAAAAAAGGGGATGTAAGAGGCTACAGAGTTACAAGTTTCTTTTTAC
TGGAATTCTCTGGTATAGCACAGGGTACTCATTTCTGCAATTCTAAAATAAATAAAAAGT
CTCTTCTATGCTTCTCTTCAAAAGCAATGAATAACAGAAGATGGGGTAAAAAAGGCATAT
TTTTTCTATTCATTCCGAACAATCGGACCCAGTATTTTTACCATCACAGGCTACAATTTT
CACTTTATCCACTTTAATAAGTTCTGCCCCCCTTCTGAATTCACCATTCTTCAGTACAAA
AGTCCACACATTATTCGCAAAATCTGTACCTATTTAAAGAGCCCCTGAAATTGACTCTGT
TCCTGACCCTCTGAGCCCAGGCTGCATTTATAGCCTTATCAAACTGAAGTAAAACTTTGA
GGCCACGTCGGGGGGCGATCCGTTGACACTGTATGAACCTATTTAGGCTTCCCTGAAGAT
TGTTTCCCAAAAAACATTTTCGTATAACTGATATCCCGGGTCTTAGGAGGAAAAATTTGC
TTTCTTATTAACTTCGGCTTGAGTCCCGCGGGGAAGCCTCTTCCCCCGGG

Restriction Sites: NotI-NotI

ACCN: NM_004492

Insert Size: 920 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:	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_004492.1, NP_004483.1
RefSeq Size:	736 bp
RefSeq ORF:	330 bp
Locus ID:	2958
UniProt ID:	P52657
Cytogenetics:	15q22.2
Domains:	TFIIA_gamma
Protein Families:	Transcription Factors
Protein Pathways:	Basal transcription factors
Gene Summary:	Accurate transcription initiation on TATA-containing class II genes involves the ordered assembly of RNA polymerase II (POLR2A; MIM 180660) and the general initiation factors TFIIA, TFIIB (MIM 189963), TFIID (MIM 313650), TFIIE (MIM 189962), TFIIF (MIM 189968), TFIIG/TFIIJ, and TFIIH (MIM 189972). The first step involves recognition of the TATA element by the TATA-binding subunit (TBP; MIM 600075) and may be regulated by TFIIA, a factor that interacts with both TBP and a TBP-associated factor (TAF; MIM 600475) in TFIID. TFIIA has 2 subunits (43 and 12 kD) in yeast and 3 subunits in higher eukaryotes. In HeLa extracts, it consists of a 35-kD alpha subunit and a 19-kD beta subunit encoded by the N- and C-terminal regions of GTF2A1 (MIM 600520), respectively, and a 12-kD gamma subunit encoded by GTF2A2 (DeJong et al., 1995 [PubMed 7724559]).[supplied by OMIM, Mar 2008]