

Product datasheet for **RC209579**

TTDA (GTF2H5) (NM_207118) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TTDA (GTF2H5) (NM_207118) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TTDA
Synonyms:	bA120J8.2; C6orf175; TFB5; TFIH; TGF2H5; TTD; TTD-A; TTD3; TTDA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209579 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC ATGGTCAACGTCTTGAAAGGAGTGCTTATAGAATGTGATCCTGCCATGAAGCAGTTTCTGCTGTA CTGG ATGAGTCCAATGCCCTGGGAAGAAGTTCATCATTCAAGACATTGATGACTCAGCTTTGTAATAGC AGAATTGGTTAATGTCTCCAGGAGCGAGTGGTGAATTAATGGACAAAATGCTTTTCCCTTACCCAG AAA ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA >RC209579 protein sequence Red=Cloning site Green=Tags(s) MVNVLKGVLEICDPAMKQFLLYLDESNALGKKFIIQDIDDTHVFVIAELVNVLQERVGELMDQNAFSLTQ K TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Protein Sequence:	
Chromatograms:	https://cdn.origene.com/chromatograms/mk6126_a09.zip
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:


ACCN: NM_207118

ORF Size: 213 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:**
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_207118.3](#)

RefSeq Size: 7503 bp

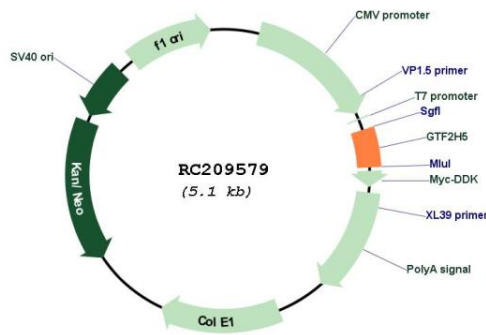
RefSeq ORF: 216 bp

Locus ID: 404672

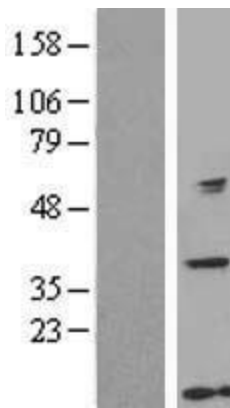
UniProt ID: [Q6ZYL4](#)
Cytogenetics: 6q25.3
Protein Families: Transcription Factors
Protein Pathways: Nucleotide excision repair
MW: 8.1 kDa

Gene Summary: This gene encodes a subunit of transcription/repair factor TFIIH, which functions in gene transcription and DNA repair. This protein stimulates ERCC3/XPB ATPase activity to trigger DNA opening during DNA repair, and is implicated in regulating cellular levels of TFIIH. Mutations in this gene result in trichothiodystrophy, complementation group A. [provided by RefSeq, Mar 2009]

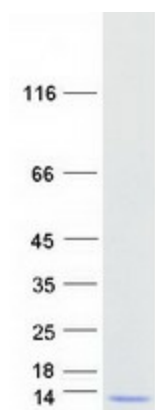
Product images:



Circular map for RC209579



Western blot validation of overexpression lysate (Cat# [LY403721]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209579 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GTF2H5 protein (Cat# [TP309579]). The protein was produced from HEK293T cells transfected with GTF2H5 cDNA clone (Cat# RC209579) using MegaTran 2.0 (Cat# [TT210002]).