

## Product datasheet for TP306283

### AF9 (MLLT3) (NM\_004529) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3 (MLLT3), 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC206283 protein sequence  
Red=Cloning site Green=Tags(s)

MASSCAVQVKLELGHRAQVRKKPTVEGFTHDWMVFVRGPEHSNIQHFVEKVVFHLHESFPRPKRVCKDPP  
YKVEESGYAGFILPIEVYFKNKEEPRKVRFDYDLFLHLEGHPPVNHLCRCEKLTFFNNPTEDFRRKLLKAGG  
DPNRSIHTSSTFSKPHKLMKEHKEKPSKD  
SREHKSFAKEPSRDHNKSSKESKPKENKPLKEEKIVPKMAFKEPKPMSKEPKPDSNLLTITSGQDKKA  
PSKRPPISDSEELSAKKRKKSSSEALFKSFSSAPPLILTCSADKKQIKDKSHVKMGKVKIESETSEKKKS  
TLPPFDDIVDPNDSVVEENISSKSDSEQSPASSSSSSSSSFTPSQTRQGPLRSIMKDLHSDDNEEESD  
EVEDNDNDSEMERPVNRRGSRRRVSLSDGSDSESSASSPLHHEPPPPLKTNNNQILEVKSPIKQSKS  
DKQIKNGECDKAYLDELVELHRRMLTLRERHILQQIVNLIETGFHITNTTDFDLCSLDKTTVRKQLQ  
YLETSGTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 63.2 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

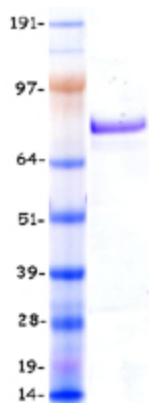
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_004520</a>
<b>Locus ID:</b>	4300
<b>UniProt ID:</b>	<a href="#">P42568</a> , <a href="#">A0A0S2Z448</a>
<b>RefSeq Size:</b>	6787
<b>Cytogenetics:</b>	9p21.3
<b>RefSeq ORF:</b>	1704
<b>Synonyms:</b>	AF9; YEATS3
<b>Summary:</b>	Chromatin reader component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA (PubMed:20159561, PubMed:20471948, PubMed:25417107, PubMed:27105114, PubMed:27545619). Specifically recognizes and binds acylated histone H3, with a marked preference for histone H3 that is crotonylated (PubMed:25417107, PubMed:27105114, PubMed:27545619). Crotonylation marks active promoters and enhancers and confers resistance to transcriptional repressors (PubMed:25417107, PubMed:27105114, PubMed:27545619). Recognizes and binds histone H3 crotonylated at 'Lys-9' (H3K9cr), and with slightly lower affinity histone H3 crotonylated at 'Lys-18' (H3K18cr) (PubMed:27105114). Also recognizes and binds histone H3 acetylated at 'Lys-9' (H3K9ac), but with lower affinity than crotonylated histone H3 (PubMed:25417107, PubMed:27105114). In the SEC complex, MLLT3 is required to recruit the complex to crotonylated histones (PubMed:27105114, PubMed:27545619).[UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Transcription Factors

### Product images:



Coomassie blue staining of purified MLLT3 protein (Cat# TP306283). The protein was produced from HEK293T cells transfected with MLLT3 cDNA clone (Cat# [RC206283]) using MegaTran 2.0 (Cat# [TT210002]).