

Product datasheet for TP306283M

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), 100 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
TLPPFDDIVDPNDSVVEENISSKSDSEQSPASSSSSSSSSFTPSQTRQGPLRSIMKDLHSDDNEEEESD
EVEDNDNDSEMERPVNRGGSRRVSLSDGSDSESSASSPLHHEPPPLKTNNNQILEVKSPIKQSKS
DKQIKNGECDKAYLDELVELHRRMLTLRERHILQQIVNLIETGFHITNTTDFDLCSLDKTTVRKLQS
YLETSGTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

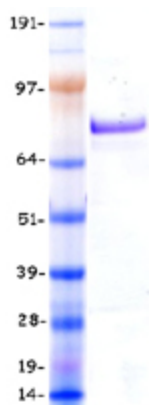
Tag:	C-Myc/DDK
Predicted MW:	63.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004520
Locus ID:	4300
UniProt ID:	P42568 , A0A0S2Z448
RefSeq Size:	6787
Cytogenetics:	9p21.3
RefSeq ORF:	1704
Synonyms:	AF9; YEATS3
Summary:	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]
Protein Families:	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]).