

## **Product datasheet for PH306283**

## OriGene Technologies, Inc.

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## AF9 (MLLT3) (NM\_004529) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** MLLT3 MS Standard C13 and N15-labeled recombinant protein (NP\_004520)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

RC206283

or AA Sequence:

**Predicted MW:** 63.3 kDa

Protein Sequence: >RC206283 protein sequence

Red=Cloning site Green=Tags(s)

YLETSGTS

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

Tag: C-Myc/DDK

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

Concentration:  $>0.05 \mu g/\mu L$  as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

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

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

**Stability:** Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 004520

RefSeq Size: 6787 RefSeq ORF: 1704





**Synonyms:** AF9; YEATS3

**Locus ID:** 4300

UniProt ID: <u>P42568</u>, <u>A0A0S2Z448</u>

**Cytogenetics:** 9p21.3

**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

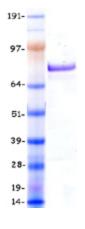
pausing by the polymerase at multiple sites along the DNA (PubMed:20159561,

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]).