

## Product datasheet for PH300454

### MATK (NM\_139354) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MATK MS Standard C13 and N15-labeled recombinant protein (NP_647611)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200454
Predicted MW:	56.5 kDa
Protein Sequence:	>RC200454 protein sequence Red=Cloning site Green=Tags(s)

MAGRGSLSVSWRAFHGCDSEELPRVSPRFLRAWHPPPVSARMPTRRWAPGTQCITKCEHTRPKPGELAFR  
KGDVVTILEACENKSWYRVKHHTSGQEGLLAAGALREREALSADPKLSLMPWFHGKISGQEAQQLPPE  
DGLFLVRESARHPGDYVLCVSFGRDVIHYRVLHRDGHLLTIDEAVFFCNLMDMVEHYSKDKGAICTKLVRP  
KRKHGTSAAEELARAGWLLNLQHLTLGAQIGEGEFGAVLQGEYLGQKVAVKNIKCDVTAQAFLEDETAVM  
TKMQHENLVRLLGVILHQGLYIVMEHVSCKGNLVNFLRTRGRALVNTAQLLQFSLHVAEGMEYLESKKLHV  
RDLAARNILVSEDLVAKVSDFLAKAERKGLDSSRLPVKWTAPEALKHGKFTSKSDVWSFGVLLWEVFSY  
GRAPYPKMSLKEVSEAVEKGYRMEPPEGCPGVHVMSSCWEAEPARRPPFRKLAEKLARELRSAGAPAS  
VSGQDADGSTSPRSQEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL 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:	<u><a href="#">NP_647611</a></u>
RefSeq Size:	1940
RefSeq ORF:	1521



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**Synonyms:** CHK; CTK; HHYLTk; HYL; HYLTK; Lsk

**Locus ID:** 4145

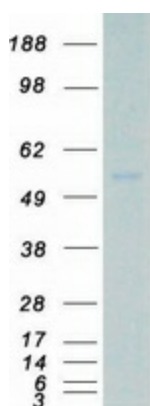
**UniProt ID:** [P42679](#)

**Cytogenetics:** 19p13.3

**Summary:** The protein encoded by this gene has amino acid sequence similarity to Csk tyrosine kinase and has the structural features of the CSK subfamily: SRC homology SH2 and SH3 domains, a catalytic domain, a unique N terminus, lack of myristylation signals, lack of a negative regulatory phosphorylation site, and lack of an autophosphorylation site. This protein is thought to play a significant role in the signal transduction of hematopoietic cells. It is able to phosphorylate and inactivate Src family kinases, and may play an inhibitory role in the control of T-cell proliferation. This protein might be involved in signaling in some cases of breast cancer. Three alternatively spliced transcript variants that encode different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Protein Kinase, Stem cell - Pluripotency

### Product images:



Coomassie blue staining of purified MATK protein (Cat# [TP300454]). The protein was produced from HEK293T cells transfected with MATK cDNA clone (Cat# [RC200454]) using MegaTran 2.0 (Cat# [TT210002]).