

Product datasheet for **SC321587**

MATK (NM_139354) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MATK (NM_139354) Human Untagged Clone
Tag:	Tag Free
Symbol:	MATK
Synonyms:	CHK; CTK; HHYLTk; HYL; HYLTk; Lsk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_139354.2
 GGCCGGCGGGCGGGCGGGCGCGGAGGAGACCGCAGTGCGGCCGGCGCTAGGACCCGCG
 GGGGCCTCCCAGGCCGCGGGCCCTCGCGCTTTCCCCACTCCCGACCCCTTCTCGCCCC
 CAAATGAGGAAACGGAGCAACTCGCTCCAAGTTGTGCAGCCGGGACCGCTCGGGGTGT
 GCAGCCGGCTCGCGGAGGCCCTCCTGGGGCGGGCGGGGCGCGGCTCGGGGCGCCCC
 CTGAGCAGAAAACAGGAAGAACCAGGCTCGTCCAGTGGCACCCAGCTCCCTACCTCCTG
 TGCCAGCCGCCTGGCCTGTGGCAGGCCATCCCAGCGTCCCGACTGTGACCACCTTGCTC
 AGTGTGCCTCTACCTGCCTCAGTTTCCCTCTGGGGCGATGGCGGGCGAGGCTCTCTG
 GTTTCCTGGCGGCATTTACCGCTGTGATTCTGCTGAGGAACTCCCGGGTGAGCCCC
 CGCTTCTCCGAGCTGGCACCCCCCTCCGTCTCAGCCAGGATGCCAACGAGGCGCTGG
 GCCCGGGCACCCAGTGTATACCAAATGCGAGCACACCCGCCCAAGCCAGGGGAGCTG
 GCCTTCCGCAAGGGCGACGTGGTACCATCCTGGAGGCTGCGAGAACAAGAGCTGGTAC
 CGCGTCAAGCACACCAGTGGACAGGAGGGGCTGCTGGCAGCTGGGGCGCTCGGGAG
 CGGGAGGCCCTCTCCGCAGACCCCAAGCTCAGCCTCATGCCGTGGTTCCACGGGAAGATC
 TCGGGCCAGGAGGCTGTCCAGCAGCTGCAGCCTCCGAGGATGGGCTGTTCTGTGCGG
 GAGTCCGCGCGCCACCCGGCGACTACGCTCTGTGCGTGAGCTTTGGCCCGACGTCATC
 CACTACCGCTGCTGCACCGCGACGGCCACCTACAATCGATGAGGCCGTGTTCTTCTGC
 AACCTCATGGACATGGTGGAGCATTACAGCAAGGACAAGGGCGCTATCTGCACCAAGCTG
 GTGAGACCAAAGCGAAACACGGGACCAAGTCCGCCGAGGAGGAGCTGGCCAGGGCGGGC
 TGGTTACTGAACCTGCAGATTTGACATTGGGAGCACAGATCGGAGAGGGAGAGTTTGA
 GCTGTCTGCAGGTGAGTACCTGGGGCAAAGGTGGCCGTGAAGAATATCAAGTGTGAT
 GTGACAGCCCAGGCCCTTCTGGACGAGACGGCCGTATGACGAAGATGCAACACGAGAAC
 CTGGTGCCTCTCCTGGCGTGATCCTGCACCAGGGGCTGACATTGTGATGGAGCACGTG
 AGCAAGGGCAACCTGGTGAACCTTCTGCGGACCCGGGGTTCGAGCCCTCGTGAACACCGCT
 CAGCTCCTGCAGTTTTCTGACGCTGGCCGAGGGCATGGAGTACCTGGAGCAAGAAG
 CTTGTGCACCGGACCTGGCCGCCGCAACATCCTGGTCTCAGAGGACCTGGTGGCCAAG
 GTCAGCGACTTTGGCCTGGCCAAAGCCGAGCGGAAGGGGCTAGACTCAAGCCGGCTGCC
 GTCAAGTGGACGGCGCCGAGGCTCTAAACACGGGAAGTTACCAGCAAGTCGGATGTC
 TGGAGTTTTGGGTGCTGCTCTGGGAGGTCTTCTCATATGGACGGGCTCCGTACCCTAAA
 ATGTCACTGAAAGAGGTGTCGGAGGCCGTGGAGAAGGGTACCGCATGGAACCCCCGAG
 GGCTGTCCAGGCCCGTGCAGTCTCATGAGCAGCTGCTGGGAGGCAGACCCGCCCGC
 CGGCCACCTTCCGCAAACCTGGCCGAGAAGCTGGCCCGGAGCTACGCAGTGCAGTGCC
 CAGCCTCCGTCTCAGGGCAGGACGCGACGGCTCCACCTCGCCCCGAAGCCAGGAGCCC
 TGACCCACCCCGTGGGGCCCTTGGCCCCAGAGGACCGAGAGTGGAGAGTGGCGCGTG
 GGGGCACTGACCAGGCCAAGGAGGGTCCAGGGCGGCAAGTCATCCTCCTGGTGGCCACA
 GCAGGGGCTGGCCACGTAGGGGCTCTGGGCGGCCGTGGACACCCAGACCTGCGAAG
 GATGATCGCCGATAAAGACGGATTCTAAGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_139354

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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:	<u>NM_139354.2</u> , <u>NP_647611.1</u>
RefSeq Size:	1940 bp
RefSeq ORF:	1401 bp
Locus ID:	4145
UniProt ID:	<u>P42679</u>
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an exon in the coding region, and utilizes a downstream in-frame start codon, compared to variant 1. Isoform c has a shorter N-terminus, compared to isoform a.</p>