

Product datasheet for SC128128

TYK2 (NM_003331) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TYK2 (NM_003331) Human Untagged Clone
Tag:	Tag Free
Symbol:	TYK2
Synonyms:	IMD35; JTK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128128 sequence for NM_003331 edited (data generated by NextGen Sequencing)

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ATGCCTCTGCGCCACTGGGGGATGGCCAGGGGAGTAAGCCCGTTGGGGATGGAGCCAG
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ACCTTCGAGAACCTCATACCCATTCTGAAGACAGTCCATGAGAAGTACCAAGGCCAGGCC
CCTTCAGTGTTACGCGTGTGCTGA
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Clone variation with respect to NM_003331.4
1084 g=>t;3258 c=>t

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003331 unedited NTTATTACACCCGCCGTTGNCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATAT AAGCAGAGCTCATTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGC CGCGAATTCGGCACGAGGCGAGCTTGTGTTCCCCCGGAAGGGTGAAGTCTGGACGCGGGCG CGGAAGGAGCGCGGCCGGAGGTCCTCAGGAAGAAGCCGCGGGGACTGGCTGCGCTTGACA GGCTGCACCTGGATGGGAGCACCTGGTGCCTCGGGACTGCTCCGATGCCCGGGTCTGTGC TGAATGTGTAATATGCGGAACCTATATTGAAACATTACAACCATCTTTTGATGGCAACACC CTGAGGACCTCCCTTTTCCAGATGGGGAACTGAGGCCAGAAATTGCTAAGTGGCTTGCT TGAGTTGACACAGGGAGCTCCAGGACTCACCTCAGCTGAGCCACCTGCCGGGAGCATGC CTCTGCGCCACTGGGGATGGCCAGGGGAGTAAGCCCGTTGGGGATGGAGCCAGCCCA TGGCTGCCATGGGAGGCTGAAGGTGCTTCTGCACTGNGCTGGTCCAGGCGGGGAGAGC CCTGGGTCACTTTCAGTGAGTCATCGCTGACAGCTGANGAAGTCTGCATCCACATTGCAC ATAAAGTTGGTATCACTCCTCTTGCTTCGATCTCTGCCCCTTCGATGCTCAGGCC AAGTCTGGTTGCCCCANACCACATCCTAGAGATCCCCAGAGATGCCAGCCTGATGCTAT ATTTCCGCATAAGGTTCTATTTTNCGGACTGGCATGGCATGAATCCCTCGGACCAGGCTG TGTAACGNTGTGGGCCNCAGGAACCGAGCATCCTCAGATAGACGCACAGGTGATGCAA CTCTGGACCAGNCTCATTGAGTACCTCNTGAGCAGGCAGCATGAGC
Restriction Sites:	Please inquire
ACCN:	NM_003331
Insert Size:	3564 bp
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).
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_003331.3</u> , <u>NP_003322.2</u>
RefSeq Size:	4224 bp
RefSeq ORF:	3564 bp
Locus ID:	7297
UniProt ID:	<u>P29597</u>
Cytogenetics:	19p13.2
Domains:	B41, pkinase, SH2, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase

Protein Pathways: Jak-STAT signaling pathway

Gene Summary: This gene encodes a member of the tyrosine kinase and, more specifically, the Janus kinases (JAKs) protein families. This protein associates with the cytoplasmic domain of type I and type II cytokine receptors and promulgate cytokine signals by phosphorylating receptor subunits. It is also a component of both the type I and type III interferon signaling pathways. As such, it may play a role in anti-viral immunity. A mutation in this gene has been associated with Immunodeficiency 35. [provided by RefSeq, Sep 2020]