

## Product datasheet for MC229470

### Tyk2 (NM\_001205312) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tyk2 (NM_001205312) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tyk2
Synonyms:	JTK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229470 representing NM_001205312 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGGGACCATGCCTCTGTGTGGGCGGAGAGCCATCTTGAAGACAGCAAGGCAGATGGCACAGAAG  
CTCAGCCCCTGGTGCCACAGGATGCTTGATGGTGTACTGCATTGGCCTGGGCCAGGGCGGGGAGCC  
CTGGGTACCTTCAGCCAGACATCTCTGACTGCAGAGGAGGTCTGCATCCACATCGCACAAAAGTCGGC  
ATCACTCCACCCTGCTTGAATCTCTTCGACTCTACAATGCACAGGCTAAGGTCTGGCTGCCCCAAACC  
ATATTCTGGATACATCCCAAGACATGAACCTCTATTTTCGAATGAGGTTTACTTCCGGAAGTGGCATGG  
CATGAATCCCCAGGAGCCAGCTGTATACCGGTGTGGTTTCCAGGGGCAGAGACTTCCTCAGACCGGCA  
GAGCAAGGTGTACAGCTCTTGGACTCTGCCTCGTTTGAATACCTTTTGGACAGGGATGGTATGTTGGCA  
ATAGAGCAAAAAGCTCCACACCTCTTTTTCTATCCATCGCTCTACCCCTCAGGGAAAGCATGAGTTCAT  
GAACGATGTGGTGTCTCTGCGGGACCTGTCTAGCGAGGAGGAGATCCACCACTTTAAGAATGAGAGCTTA  
GGCATGGCCTTCTGCACCTGTGTACCTTGTCTCAGCCGAGGCGTCCCCTGGAGGAGATGGCCAGAG  
AGATCAGCTTCAAGAAGTGCATCCCTCATTCTCCGACAGCACATCCGGCAGCACAAATGTGCTCACACG  
CCTGCGGCTCCACAGAGTCTTCCGCGCTTCTGCGGGCCTTCCGGCCTGGCCACCTCTCCACAGGTT  
GTGATGGTGAAGTACTTGGCTACCTGGAGCGGCTGGCTCCGCGCTTTGGCTCAGAGCGCATACCTGTGT  
GTCATCTGGAGGTCTTGGCACAGCCGAGAGGGACCCCTGCTACATCCAGAACAGTGGGCAGACCGCTGG  
GGATCCAGGCCAGAGCTGCCTTCCGGGCTCCACCCACGAGGTAAGTGTGACAGGCACCGGAGGTATC  
CAGTGGCATCCGCTGCAGACCCAGGAATCTGAGAGAGGTAACAGCAGAGGGAATCCCCACGGCAGCCGT  
CGGGGAAGAAGCCAAAGCCCCAAGGCTGGAGAGCACCTGACAGAGAGCCCTCAGGAACCACTTGGAC  
CTACTTCTGTGACTTCCAGGACATTTCCACGTTGGTGTAAAGGAGCGTCGCTGACATCCACCTCCA  
GACAACAAGTGTGTTGCTGTGCTCTGTTCCAGGCTGAGGCCCTGTCTTTGGCCCTGGTCGATG  
GCTATTTCCGCTTACTGCTGACTCCAGCCACTATCTGTGCCATGAGGTGGCACCCCGAGGCTGGTGAC  
TAGCATCCAGAAGGCATCCATGGGCCCTGATGGATCCGTTTGTACAGGCCAAGCTGTGGCCAGAGGAC



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GGCCTCTACCTGATTCAGTGGAGCACCAGCCACCTGCACCGCCTGATCCTTACCGTGGCCCATCGAAACC
CGGCTTTCAGTAATGGCCCTCGGGGCTGCGCCTGCGAAAGTTCCCCATCACACAGCAGCCTGGAGCCTT
TGTGCTGGATGGCTGGGGCCGCTCCTTTGCCAGCTTGGGGGACCTTCGGCTCGCCTTGACAGGGCTGCTCG
TTGCGGGCCGGTATGACTGTTTCCCCGCACCACTGCTGCCTGCCCGGCCAAGAGAAATCTCCAACC
TCGTATCATGCGGGGTCTAGGGCCACACCCGGCCTCAACCTCAGTCAGCTCAGCTCCACAGGGT
TCACCAGGATGAAATCACCCAGCTGTCCCACTTGGCCAAGGCACAAGGACCAATGTGTATGAGGGCCTT
CTAAGAGTGGGAGGCCCGATGAGGGCAAAGTGGACAATGGATGTCCCCCTGAGCCTGGTGGGACTGTG
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GACTGCTAGCCTCATGAGCCAGGTGTACACATGCACCTGGCTTTCCTGCATGGTGTTCGCTGCGTGGC
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GCCAAGTGCCCATGACCTGGAAGATGGTCGTGGCTCAGCAGCTGGCCAGCGCCCTCAGCTACCTGGAGGA
CAAGAATCTGGTTCACGGGAATGTATGTGGCCGGAACATCCTGCTGGCTCGCCTGGGGTTGGAGGAGGGT
ACCAACCCCTTCAAGCTAAGTATCCTGGTGTGGCCAGGGTGCCTCTCCAGGGAAGAGCGGGTGG
AGCGCATCCCCTGGACAGCTCCCGAGTGCCTGTCTGGAGGGACCAGTAGCTTGGTACTGCCACGGACAT
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TCTGAGAAAGAACGGTTCTACACAAAGAAACATCAGCTGCCTGAACCCTATCCCCAGAGCTGGCCACAC
TCAACCCGCGAGTGCCTGACCTATGAACAGCACAGCGGCCATCCTTCCGACCATTTTGGCGGACCTCAC
AAGGCTGCAGCCACAGAATCTAGTCGGCACTTCGGCTGTGAACCTCAGACTCACCAGCATCAGACCCCACT
GTTTTCCACAAGCGCTATTTGAAAAAGATCCGGGATTTGGGTGAGGGTCACTTTGGCAAGGTGAGCCTGT
ACTGCTACGACCAACCAATGACGGCACTGGCGAGATGGTGGCCGTGAAGGCCCTGAAGGAAGGGTGGCG
TCCCCAGCTCCGCTCAGGCTGGCAGCGGGAGATCGAGATCCTGCGGACGCTGTACCACGAACATATTGTC
AAGTATAAAGGCTGCTGTGAGGACCAAGGAGAGAAGTCTGTACAGCTGGTATGGAGTACGTCCCTCTGG
GCAGCCTCCGAGACTACCTGCCAAGGCACTGCGTAGGGCTGGCGCAGCTCCTGCTGTTTGGCCAGCAGAT
CTGCGAGGGCATGGCCTACCTGCACGCTCAGCACTACATTACCCGAGACCTCGCCGCGCAACGTGCTG
CTGGACAACGACAGGCTGGTCAAGATTGGAGACTTTGGCCTAGCCAAGGCTGTACCTGAAGGCCACGAGT
ACTACCGAGTGCAGGAGGACGGGACAGCCAGTGTCTGGTATGCCCAAGATGCCTGAAGGAGTGCAA
ATTTTACTATGCATCTGATGTCTGGTCTTCGGGGTAACTCTGTATGAGTTGTTGACATACTGTGACTCT
AACCAGAGTCCCCATATGAAATTCACCGAGCTCATCGGCCATACCCAGGGCCAGATGACCGTGTGAGGC
TCACAGAGCTGCTGGAACGAGGAGAGAGGCTGCCTCGGCCTGACAGGTGTCCCTGTGAGATCTATCACCT
CATGAAGAACTGTGGGAGACAGAGGCCTCCTTCCGGCCACCTCCAGAATCTGTGCCATCTCCAG
ACAGCACAGGAGAAGTACCAAGGTGAGGTGCCTCCGTGTTCAGCGTGTGCTGA

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001205312
- Insert Size:** 3624 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:**

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:** [NM\\_001205312.1](#), [NP\\_001192241.1](#)

**RefSeq Size:** 4873 bp

**RefSeq ORF:** 3624 bp

**Locus ID:** 54721

**Cytogenetics:** 9 A3

**Gene Summary:** Involved in intracellular signal transduction by amplifying type I and type II IFN signaling. Phosphorylates the interferon-alpha/beta receptor alpha chain. Plays an essential role in promoting selective immune responses, including innate host defense mechanisms and specific antiviral activities.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.