

Product datasheet for RC402689

TYK2 (NM_003331) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	TYK2 (NM_003331) Human Mutant ORF Clone
Mutation Description:	I684S
Affected Codon#:	684
Affected NT#:	2051
Nucleotide Mutation:	TYK2 Mutant (I684S), Myc-DDK-tagged ORF clone of Homo sapiens tyrosine kinase 2 (TYK2) as transfection-ready DNA
Effect:	Sysemi lupus erythemusos, susepibiliy ssoiion wih
Symbol:	TYK2
Synonyms:	IMD35; JTK1
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_003331
ORF Size:	3561 bp
Restriction Sites:	Sgfl-Mlul
ORF Nucleotide Sequence:	>RC402689 representing NM_003331 Red=Cloning site Blue=ORF Green=Tags(s)

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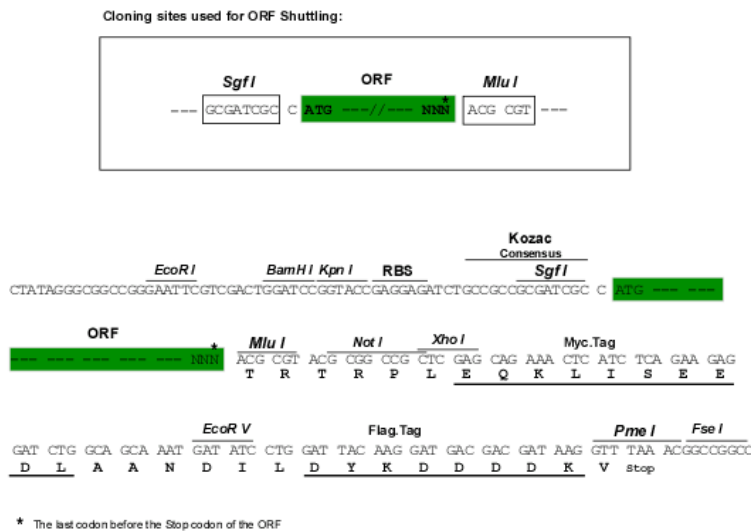
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Protein Sequence: >RC402689 representing NM_003331
 Red=Cloning site Green=Tags(s)

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Restriction Sites: SgfI-MluI
Cloning Scheme:



OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).
RefSeq:	NP_003322
RefSeq Size:	3561 bp
RefSeq ORF:	3564 bp
Locus ID:	7297
Cytogenetics:	19p13.2
Domains:	B41, pkinase, SH2, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Jak-STAT signaling pathway
MW:	130.6 kDa
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]