

## Product datasheet for **RC600075**

### **TYRO3 (NM\_006293) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TYRO3 (NM_006293) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	TYRO3
Synonyms:	BYK; Dtk; Etk-2; Rek; RSE; Sky; Tif
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RC600075 representing leader sequence plus the extracellular domain region of NM\_006293

Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCTGGTACCGAGGAGATCCGCCGCCG  
CGATCGCC

ATGGCGCTGAGGCGGAGCATGGGGCGGGGGCTCCCGCGCTGCCGCTGCCGCCGCCACCGCGGCTCG  
GGCTGCTGCTGGCGGCTCTGGCTTCTCTGCTGCTCCCGGAGTCCGCCGCCGACAGGCTGAAGCTCATGGG  
AGCCCCGGTGAAGCTGACAGTGTCTCAGGGGCAGCCGGTGAAGCTCAACTGCAGTGTGGAGGGGATGGAG  
GAGCCTGACATCCAGTGGGTGAAGGATGGGGCTGTGGTCCAGAATTGGACCAAGTTGTACATCCCAGTCA  
GCGAGCAGCACTGGATCGGCTTCTCAGCCTGAAGTCAAGTGGAGCGCTCTGACGCCGCCGGTACTGGT  
CCAGGTGGAGGATGGGGGTGAAACCGAGATCTCCAGCCAGTGTGGCTCACGGTAGAAGGTGTGCCATTT  
TTCACAGTGGAGCAAAGATCTGGCAGTCCACCAATGCCCTTTCCAAGTGTCTGTGAGGCTGTGG  
GTCCCCCTGAACCTGTTACCATTGTCTGGTGGAGAGGAACACGAAGATCGGGGGACCCGCTCCCTCTCC  
ATCTGTTTTAAATGTAACAGGGGTGACCCAGAGCACCATGTTTTCTGTGAAGCTCACAACCTAAAAGGC  
CTGGCCTCTTCTCGCACAGCCACTGTTCACCTCAAGCACTGCCTGCAGCCCCCTCAACATCACCGTGA  
CAAAGCTTTCCAGCAGCAACGCTAGTGTGGCCTGGATGCCAGGTGCTGATGGCCGAGCTCTGCTACAGTC  
CTGTACAGTTCAGGTGACACAGGCCCCAGGAGGCTGGGAAGTCTGGCTGTTGTGGTCCCTGTGCCCCCT  
TTACCTGCCTGCTCCGGGACCTGGTGCCTGCCACCAACTACAGCCTCAGGCTGCGCTGTGCCAATGCCT  
TGGGGCCCTCTCCCTATGCTGACTGGGTGCCCTTTCAGACCAAGGGTCTAGCCCCAGCCAGCGCTCCCCA  
AAACCTCCATGCCATCCGCACAGATTAGGCCTCATCTGGAGTGGGAAGAAGTGTATCCCCGAGGCCCTT  
TTGGAAGGCCCTGGGACCCCTACAACTGTCTGGGTTCAAGACAATGGAACCCAGGATGAGCTGACAG  
TGGAGGGGACCAGGGCCAATTTGACAGGCTGGGATCCCCAAAAGGACCTGATCGTACGTGTGTGCGTCTC  
CAATGCAGTTGGCTGTGGACCCTGGAGTCAAGCACTGGTGGTCTCTTCTCATGACCGTGCAGGCCAGCAG  
GGCCCTCTCACAGCCGCACATCTGG

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAAATGAGATC  
TGGTACCGATATCAAGCTTGTGACTCTAGA

**Protein Sequence:**

>RC600075 representing signal peptide plus the extracellular domain region of NM\_006293

Red=Cloning sites Green= DDK and 6XHis Tags

MALRRSMGRPGLPPLPLPPPPRLGLLL AALASLLL PESAAAGLKLMGAPVKLTVSQGQPVKLNCSVEGME  
EPDIQWVKDGA VVQNL DQLYIPVSEQHWIGFLSLKSVERSDAGRYWCQVEDGGETEISQPVWL TVEGVPF  
FTVEPKDLAVPPNAPFQLSCEAVGPPEPVTIVWWRGTTKIGGPAPSPSVLNVGTQSTMFSCAHLNKG  
LASSRTAVHLQALPAAPFNITVTKLSSNASVAWMPGADGRALLQSCTVQVTQAPGGWEVLAVVVPVPP  
FTCLLRDLVPATNYSRLRVCANALGPSYADWVPFQTKGLAPASAPQNLHAIRTD SGLILEWEEV IPEAP  
LEGPLGPYKLSWVQDNQTQDEL TVEGTRANLTGWDPQKDLIVRVCVSNVAVGCGPWSQPLV VSSHDRAGQQ  
GPPHSRTSW

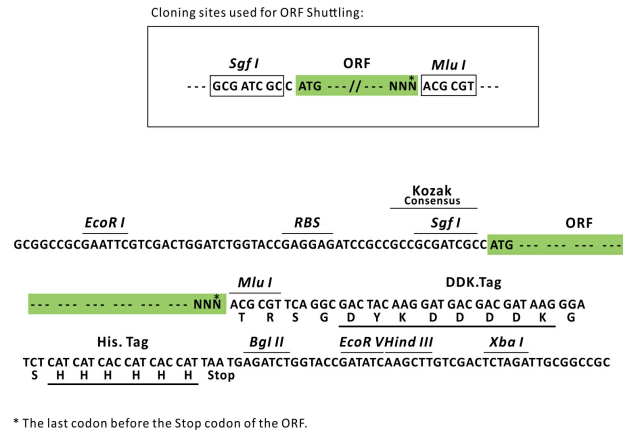
TRSGTRSGDYKDDDDKGS HHHHHH

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8118\\_a01.zip](https://cdn.origene.com/chromatograms/mk8118_a01.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_006293

**ORF Size:** 1287 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 extra cellular domain of the protein 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).

- 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:	<u>NM_006293.3, NP_006284.2</u>
RefSeq Size:	4001 bp
RefSeq ORF:	2673 bp
Locus ID:	7301
UniProt ID:	<u>Q06418</u>
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome, Protein Kinase
MW:	45.8 kDa
Gene Summary:	<p>The gene is part of a 3-member transmembrane receptor kinase receptor family with a processed pseudogene distal on chromosome 15. The encoded protein is activated by the products of the growth arrest-specific gene 6 and protein S genes and is involved in controlling cell survival and proliferation, spermatogenesis, immunoregulation and phagocytosis. The encoded protein has also been identified as a cell entry factor for Ebola and Marburg viruses. [provided by RefSeq, May 2010]</p>