

## Product datasheet for **RC208260**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TYRO3 (NM_006293) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TYRO3
Synonyms:	BYK; Dtk; Etk-2; Rek; RSE; Sky; Tif
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC208260 representing NM\_006293  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCTGAGGGCGAGCATGGGGCGGCCGGGGCTCCCGCGCTGCCGCTGCCGCCACC CGGGCTCG  
 GGCTGCTGCTGGCGGCTCTGGCTTCTCTGCTGCTCCCGAGTCCGCCCGCAGGCTGAAGCTCATGGG  
 AGCCCCGGTGAAGCTGACAGTGTCTCAGGGCAGCCGGTGAAGCTCAACTGCAGTGTGGAGGGATGGAG  
 GAGCCTGACATCCAGTGGGTGAAGGATGGGGCTGTGGTCCAGAATTGGACCAGTTGTACATCCCAGTCA  
 GCGAGCAGCACTGGATCGGCTTCTCAGCCTGAAGTCAAGTGGAGCGCTCTGACGCCGGCCGGTACTGGT  
 CCAGGTGGAGGATGGGGGTGAAACCGAGATCTCCAGCCAGTGTGGCTCACGGTAGAAGGTGTGCCATTT  
 TTCACAGTGGAGCAAAAGATCTGGCAGTCCACCAATGCCCTTTCCAAGTGTCTGTGAGGCTGTGG  
 GTCCCCCTGAACCTGTTACCATTGTCTGGTGGAGAGGAACTACGAAGATCGGGGGACCCGCTCCCTCTCC  
 ATCTGTTTTAAATGTAACAGGGGTGACCCAGAGCACCATGTTTTCTGTGAAGCTCACAACTAAAAGGC  
 CTGGCCTCTTCTCGCACAGCCACTGTTACCTTCAAGCACTGCCTGCAGCCCCCTTCAACATCACCGTGA  
 CAAAGCTTTCCAGCAGCAACGCTAGTGTGGCTGGATGCCAGGTGCCGATGGCCGAGCTCTGCTACAGTC  
 CTGTACAGTTCAGGTGACACAGGCCCCAGGAGGCTGGGAAGTCCCTGGCTGTTGTGGTCCCTGTGCCCCC  
 TTTACCTGCCTGCTCCGGGACCTGGTGCCTGCCACCAACTACAGCCTCAGGGTGCCTGTGCCAATGCCT  
 TGGGGCCCTCTCCCTATGCTGACTGGGTGCCCTTTCAGACCAAGGGTCTAGCCCCAGCCAGCGCTCCCCA  
 AAACCTCCATGCCATCCGCACAGATTAGGCCTCATCTTGGAGTGGGAAGAAGTATCCCCGAGGGCCCT  
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 TGGAGGGGACCAAGGCCAATTTGACAGGCTGGGATCCCCAAAAGGACCTGATCGTACGTGTGTGCTCTC  
 CAATGCAGTTGGCTGTGGACCCTGGAGTCAGCCACTGGTGGTCTCTTCTCATGACCGTGCAGGCCAGCAG  
 GGCCCTCCTCACAGCCGACATCCTGGGTACCTGTGGTCTTGGTGTGCTAACGGCCCTGGTGCAGGCTG  
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 ATCGAGGCCACATTGGACAGCTTGGGCATCAGCGATGAACTAAAGGAAAACTGGAGGATGTGCTCATCC  
 CAGAGCAGCAGTTCACCTGGGCCGATGTTGGGCAAAGGAGAGTTTGGTTCAGTGCAGGAGGCCAGCT  
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 GAGACCTGGCTGCTCGGAATTGCATGCTGGCAGAGGACATGACAGTGTGTGGTGGCTGACTTCGGACTCTC  
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 CGGGAACCGCCTGAAACAGCCTCCGGAGTGTATGGAGGACGTGTATGATCTCATGTACCAGTGTGGAGT  
 GCTGACCCCAAGCAGCGCCCGAGCTTTACTTGTCTGCGAATGGAAGTGGAGAACATCTTGGGCCAGCTGT  
 CTGTGCTATCTGCCAGCCAGGACCCCTTATACATCAACATCGAGAGAGCTGAGGAGCCACTGCGGGAGG  
 CAGCCTGGAGCTACCTGGCAGGGATCAGCCCTACAGTGGGGCTGGGGATGGCAGTGGCATGGGGGACGTG  
 GGTGGCACTCCCAGTACTGTGGTACATACTACCCCGGAGGGCTGGCTGAGCAGCCAGGGCAGGCAG  
 AGCACCAGCCAGAGAGTCCCTCAATGAGACACAGAGGCTTTTGTGCTGCAGCAAGGGCTACTGCCACA  
 CAGTAGCTGT

**ACGCGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC208260 representing NM\_006293  
 Red=Cloning site Green=Tags(s)

MALRRSMGRPGLPPLPLPPPPRLGLLLAAALASLLLPEASAAAGLKMGPVKLTVSQGQPVKLNCSVEGME  
 EPDIQWVKDGA VVQNL DQLYIPVSEQHWIGFLSLKSVERSDAGRYWCQVEDGGETEISQPVWLTVEGVPP  
 FTVEPKDLAVPPNAPFQLSCEAVGPPPEPTIVWWRGTTKIGGPAPSPSVLNVTVGTQSTMFSCAHLNKG  
 LASSRTATVHLQALPAAPFNITVTKLSSNASVAVWMPGADGRALLQSCVTQVTQAPGGWEVLAVVVPVPP  
 FTCLLRDLVPATNYSLRVRCANALGPSYADWVPFQTKGLAPASAPQNLHAIRTD SGLILEWEEVPEAP  
 LEGPLGPYKLSWVQDNGTQDELVEGTRANLTGWDPQKDLIVRVCVSNVAVGCGPWSQPLVVSSHDRAGQQ  
 GPPHSRTSWVPVVLGVLTAALALILLRKRKTRFQAFDSVMARGEPVHFRAARSFNRERPER  
 IEATLDSLGISDELKEKLEDVLIPEQQFTLGRMLGKGEFGSVREAQLKQEDGSFVKVAVKMLKADIASS  
 DIEEFLREAACMKEFDHPHVAKLVGVSLSRAKGRLLPIMVILPFMKHGDLHAFLLASRIGENPFNLPLQ  
 TLIRFMVDIACGMEYSSRNFIHRDLAARNCLAEADMTVCVADFGLSRKIYSGDYRQGCASKLPVKWLA  
 LESLADNLYTVQSDVWAFGVTMWEIMTRGQTPYAGIENAEIYNYLIGGNRLKQPPECMEDVYDLMYQCWS  
 ADPKQRPSTCLRMELENILGQLSVLSASQDPLYINIERAEPTAGGSLELPRDQPYSGAGDGS GMGAV  
 GGTPSDCRYILTPGGLAEQPGQAEHQPE SPLNETQRLLLLQQGLLPHSSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2642\\_g07.zip](https://cdn.origene.com/chromatograms/mg2642_g07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



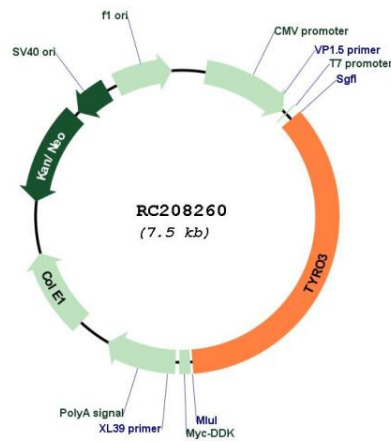
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_006293

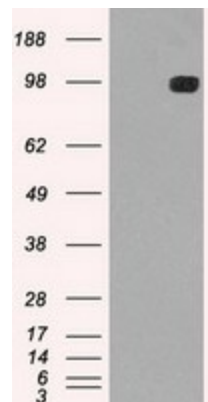
<b>ORF Size:</b>	2670 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid 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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_006293.4</a>
<b>RefSeq Size:</b>	3949 bp
<b>RefSeq ORF:</b>	2673 bp
<b>Locus ID:</b>	7301
<b>UniProt ID:</b>	<a href="#">Q06418</a>
<b>Cytogenetics:</b>	15q15.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	96.7 kDa

**Gene Summary:**

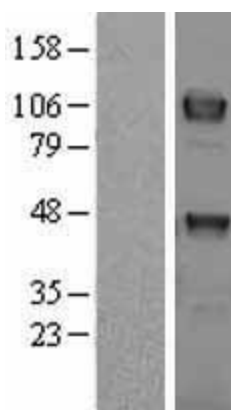
The gene is part of a 3-member transmembrane receptor kinase receptor family with a processed pseudogene distal on chromosome 15. The encoded protein is activated by the products of the growth arrest-specific gene 6 and protein S genes and is involved in controlling cell survival and proliferation, spermatogenesis, 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]

**Product images:**


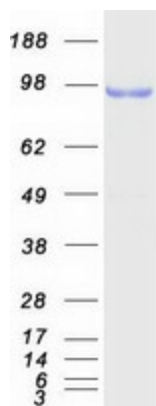
Circular map for RC208260



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TYRO3 (Cat# RC208260, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TYRO3 (Cat# [TA500413]). Positive lysates [LY401899] (100ug) and [LC401899] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401899]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208260 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TYRO3 protein (Cat# [TP308260]). The protein was produced from HEK293T cells transfected with TYRO3 cDNA clone (Cat# RC208260) using MegaTran 2.0 (Cat# [TT210002]).