OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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
GCCGCGATCGCC

ATGGCGCTGAGGCGGAGCATGGGGCGGCCGGGGCTCCCGCCGCTGCCGCTGCCGCCGCCACCGCGGCTCG
GGCTGCTGCTGGCGGCTCTGGCTTCTCTGCTGCTCCCGGAGTCCGCCGCCGCAGGTCTGAAGCTCATGGG
AGCCCCGGTGAAGCTGACAGTGTCTCAGGGGCAGCCGGTGAAGCTCAACTGCAGTGTGGAGGGGATGGAG
GAGCCTGACATCCAGTGGGTGAAGGATGGGGCTGTGGTCCAGAACTTGGACCAGTTGTACATCCCAGTCA
GCGAGCAGCACTGGATCGGCTTCCTCAGCCTGAAGTCAGTGGAGCGCTCTGACGCCGGCCGGTACTGGTG
CCAGGTGGAGGATGGGGGTGAAACCGAGATCTCCCAGCCAGTGTGGCTCACGGTAGAAGGTGTGCCATTT
TTCACAGTGGAGCCAAAAGATCTGGCAGTGCCACCCAATGCCCCTTTCCAACTGTCTTGTGAGGCTGTGG
GTCCCCCTGAACCTGTTACCATTGTCTGGTGGAGAGGAACTACGAAGATCGGGGGACCCGCTCCCTCTCC
ATCTGTTTTAAATGTAACAGGGGTGACCCAGAGCACCATGTTTTCCTGTGAAGCTCACAACCTAAAAGGC
CTGGCCTCTTCTCGCACAGCCACTGTTCACCTTCAAGCACTGCCTGCAGCCCCCTTCAACATCACCGTGA
CAAAGCTTTCCAGCAGCAACGCTAGTGTGGCCTGGATGCCAGGTGCCGATGGCCGAGCTCTGCTACAGTC
CTGTACAGTTCAGGTGACACAGGCCCCAGGAGGCTGGGAAGTCCTGGCTGTTGTGGTCCCTGTGCCCCCC
TTTACCTGCCTGCTCCGGGACCTGGTGCCTGCCACCAACTACAGCCTCAGGGTGCGCTGTGCCAATGCCT
TGGGGCCCTCTCCCTATGCTGACTGGGTGCCCTTTCAGACCAAGGGTCTAGCCCCAGCCAGCGCTCCCCA
AAACCTCCATGCCATCCGCACAGATTCAGGCCTCATCTTGGAGTGGGAAGAAGTGATCCCCGAGGCCCCT
TTGGAAGGCCCCCTGGGACCCTACAAACTGTCCTGGGTTCAAGACAATGGAACCCAGGATGAGCTGACAG
TGGAGGGGACCAGGGCCAATTTGACAGGCTGGGATCCCCAAAAGGACCTGATCGTACGTGTGTGCGTCTC
CAATGCAGTTGGCTGTGGACCCTGGAGTCAGCCACTGGTGGTCTCTTCTCATGACCGTGCAGGCCAGCAG
GGCCCTCCTCACAGCCGCACATCCTGGGTACCTGTGGTCCTTGGTGTGCTAACGGCCCTGGTGACGGCTG
CTGCCCTGGCCCTCATCCTGCTTCGAAAGAGACGGAAAGAGACGCGGTTTGGGCAAGCCTTTGACAGTGT
CATGGCCCGGGGAGAGCCAGCCGTTCACTTCCGGGCAGCCCGGTCCTTCAATCGAGAAAGGCCCGAGCGC
ATCGAGGCCACATTGGACAGCTTGGGCATCAGCGATGAACTAAAGGAAAAACTGGAGGATGTGCTCATCC
CAGAGCAGCAGTTCACCCTGGGCCGGATGTTGGGCAAAGGAGAGTTTGGTTCAGTGCGGGAGGCCCAGCT
GAAGCAAGAGGATGGCTCCTTTGTGAAAGTGGCTGTGAAGATGCTGAAAGCTGACATCATTGCCTCAAGC
GACATTGAAGAGTTCCTCAGGGAAGCAGCTTGCATGAAGGAGTTTGACCATCCACACGTGGCCAAACTTG
TTGGGGTAAGCCTCCGGAGCAGGGCTAAAGGCCGTCTCCCCATCCCCATGGTCATCTTGCCCTTCATGAA
GCATGGGGACCTGCATGCCTTCCTGCTCGCCTCCCGGATTGGGGAGAACCCCTTTAACCTACCCCTCCAG
ACCCTGATCCGGTTCATGGTGGACATTGCCTGCGGCATGGAGTACCTGAGCTCTCGGAACTTCATCCACC
GAGACCTGGCTGCTCGGAATTGCATGCTGGCAGAGGACATGACAGTGTGTGTGGCTGACTTCGGACTCTC
CCGGAAGATCTACAGTGGGGACTACTATCGTCAAGGCTGTGCCTCCAAACTGCCTGTCAAGTGGCTGGCC
CTGGAGAGCCTGGCCGACAACCTGTATACTGTGCAGAGTGACGTGTGGGCGTTCGGGGTGACCATGTGGG
AGATCATGACACGTGGGCAGACGCCATATGCTGGCATCGAAAACGCTGAGATTTACAACTACCTCATTGG
CGGGAACCGCCTGAAACAGCCTCCGGAGTGTATGGAGGACGTGTATGATCTCATGTACCAGTGCTGGAGT
GCTGACCCCAAGCAGCGCCCGAGCTTTACTTGTCTGCGAATGGAACTGGAGAACATCTTGGGCCAGCTGT
CTGTGCTATCTGCCAGCCAGGACCCCTTATACATCAACATCGAGAGAGCTGAGGAGCCCACTGCGGGAGG
CAGCCTGGAGCTACCTGGCAGGGATCAGCCCTACAGTGGGGCTGGGGATGGCAGTGGCATGGGGGCAGTG
GGTGGCACTCCCAGTGACTGTCGGTACATACTCACCCCCGGAGGGCTGGCTGAGCAGCCAGGGCAGGCAG
AGCACCAGCCAGAGAGTCCCCTCAATGAGACACAGAGGCTTTTGCTGCTGCAGCAAGGGCTACTGCCACA
CAGTAGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208260 representing NM_006293
Red=Cloning site Green=Tags(s)

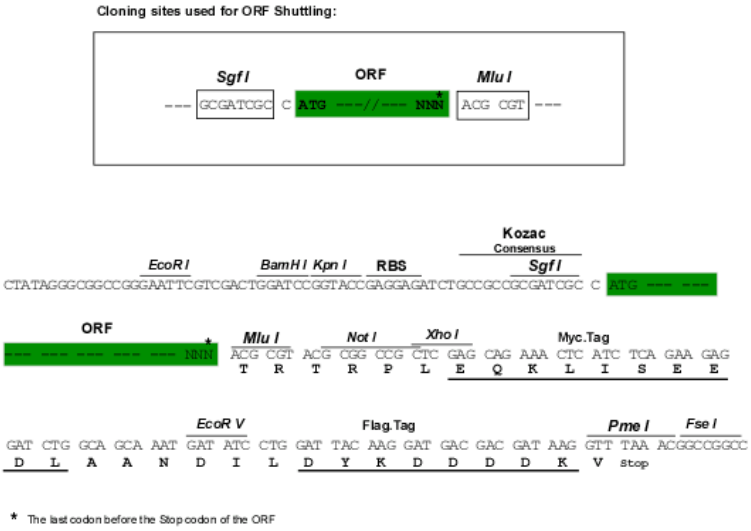
MALRRSMGRPGLPPLPLPPPPRLGLLLAALASLLLPESAAAGLKLMGAPVKLTVSQGQPVKLNCSVEGME
EPDIQWVKDGAVVQNLDQLYIPVSEQHWIGFLSLKSVERSDAGRYWCQVEDGGETEISQPVWLTVEGVPF
FTVEPKDLAVPPNAPFQLSCEAVGPPEPVTIVWWRGTTKIGGPAPSPSVLNVTGVTQSTMFSCEAHNLKG
LASSRTATVHLQALPAAPFNITVTKLSSSNASVAWMPGADGRALLQSCTVQVTQAPGGWEVLAVVVPVPP
FTCLLRDLVPATNYSLRVRCANALGPSPYADWVPFQTKGLAPASAPQNLHAIRTDSGLILEWEEVIPEAP
LEGPLGPYKLSWVQDNGTQDELTVEGTRANLTGWDPQKDLIVRVCVSNAVGCGPWSQPLVVSSHDRAGQQ
GPPHSRTSWVPVVLGVLTALVTAAALALILLRKRRKETRFGQAFDSVMARGEPAVHFRAARSFNRERPER
IEATLDSLGISDELKEKLEDVLIPEQQFTLGRMLGKGEFGSVREAQLKQEDGSFVKVAVKMLKADIIASS
DIEEFLREAACMKEFDHPHVAKLVGVSLRSRAKGRLPIPMVILPFMKHGDLHAFLLASRIGENPFNLPLQ
TLIRFMVDIACGMEYLSSRNFIHRDLAARNCMLAEDMTVCVADFGLSRKIYSGDYYRQGCASKLPVKWLA
LESLADNLYTVQSDVWAFGVTMWEIMTRGQTPYAGIENAEIYNYLIGGNRLKQPPECMEDVYDLMYQCWS
ADPKQRPSFTCLRMELENILGQLSVLSASQDPLYINIERAEEPTAGGSLELPGRDQPYSGAGDGSGMGAV
GGTPSDCRYILTPGGLAEQPGQAEHQPESPLNETQRLLLLQQGLLPHSSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2642_g07.zip

Restriction Sites: SgfI-MluI

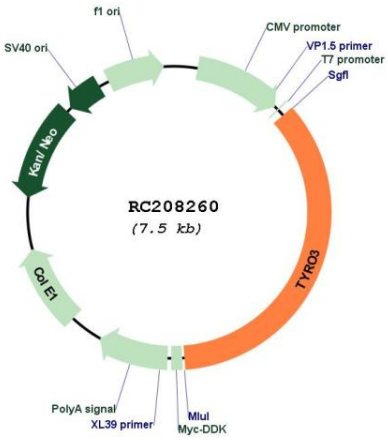
Cloning Scheme:



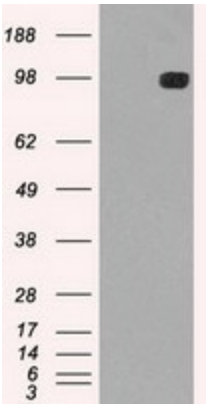
ACCN: NM_006293

ORF Size:	2670 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 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 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).
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_006293.4
RefSeq Size:	3949 bp
RefSeq ORF:	2673 bp
Locus ID:	7301
UniProt ID:	Q06418
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome, Protein Kinase
MW:	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]

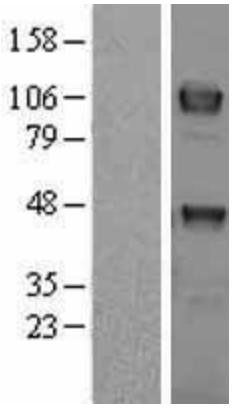
Product images:



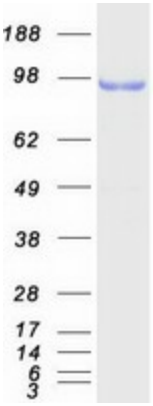
Circular map for RC208260



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 un-transfected 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]).