

Product datasheet for **MR211050**

Tyro3 (BC082325) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tyro3 (BC082325) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tyro3
Synonyms:	Dtk, Rse, Sky, Tif, Etk-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR211050 representing BC082325
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCTGAGGCGGAGCATGGGGTGGCCGGGGCTCCGGCCGCTGCTGCTGGCGGACTGGCTTCTCTGC
 TGCTCCCGGGTCTGCGGCCGAGCCCTGAAGCTCATGGCGCCCAAGTGAAGATGACCGTGTCTCAGGG
 GCAGCCAGTGAAGCTCAACTGCAGCGTGGAGGGATGGAGGACCTGACATCCACTGGATGAAGGATGGC
 ACCGTGGTCCAGAATGCAAGCCAGGTGTCCATCTCCATCAGCGAGCACAGCTGGATTGGCTTACTCAGCC
 TAAAGTCAGTGAACGGTCTGATGCTGGCCTGTACTGGTGCCAGGTGAAGGATGGGGAGGAAACCAAGAT
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 GGAGAGGACTCACTAAGTTGGGGGACCTGCTCCCTCTCCCTCTGTTTTAAATGTGACAGGAGTGACCCA
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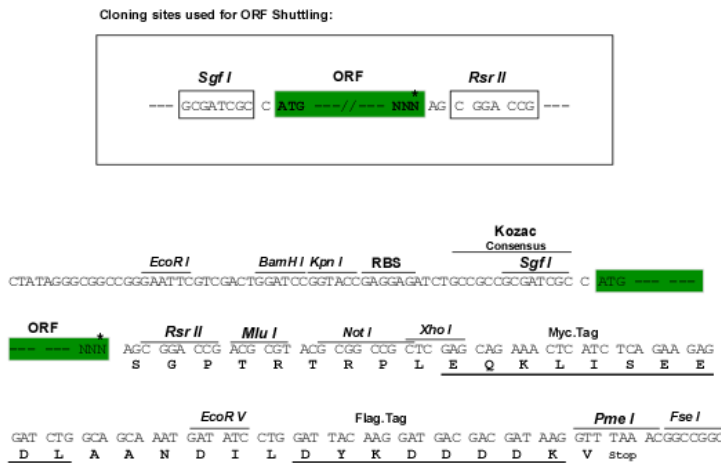
Protein Sequence: >MR211050 representing BC082325
 Red=Cloning site Green=Tags(s)

MALRRSMGWPLRPLLLAGLASLLLPGSAAAGLKMGPVKMTVSQGQPVKLNCSVEGMEDPDIHMKDG
 TVVQNASQVSIISIEHSWIGLLSLKSVERSDAGLYWCQVKDGEETKISQSVWLTVEGVFFTVPEPKDLAV
 PPNAPFQLSCEAVGPPEPVTIYWRGLTKVGGPAPSPSVLNVTVGTQRTEFSCEARNIKGLATSRPAIVR
 LQAPPAAPFNTTIVTTISSYNASVAWVPGADGLALLHSCVQVAHAPGEWEALAVVVPVPPFTCLLRNLAP
 ATNYSLRVRCANALGPSYGDWVPFQTKGLAPARAPQNFHAIRTDGLILEWEEVIPEDPGEGPLGPYKL
 SWVQENGTQDELMEVETRANLTDWDPQKDLILRVCASNAIGDGPWSQPLVSSHDAHGRQPPHSRTSWV
 PVVLGVLTAITAAALAILLRKRRKETRFQAFDSVMARGEPAVHFRAARSFNRERPERIEATLDSLGI
 SDELKEKLEDVLIPEQQFTLGRMLKGGEFGSVREAQLKQEDGSFVKVAVKMLKADIIASSDIEEFLREA
 CMKEFDHPHVAKLVGVSLSRAKGRLPIMPVILPFMKHGDLHAFLLASRIGENPFNLPLQTLVRFMVDIA
 CGMEYLSSRNFIHRDLAARNCLAEADMTVCVADFGLSRKIYSGDYRQGCASKLPVKWLALESLADNLYT
 VHSVWAFGVTMWEIMTRGQTPYAGIENAEIYNYLIGGNRLKQPPCEMEEVYDLMYQCWSADPKQRSFT
 CLRMELENILGHL SVLSTSQDPLYINIERAEQPTESGSPVHCGERSSSEAGDGSVGVAVGGIPSDSRYI
 FSPGGLSESPGLEQQPESPLNENQRLLLLQQGLLPHSSC

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

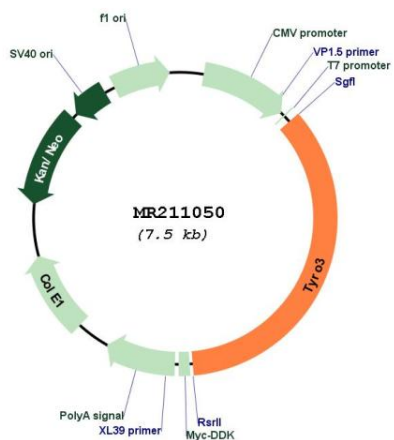
Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN:	BC082325
ORF Size:	2640 bp
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).
Reconstitution Method:	<ol style="list-style-type: none">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:	BC082325 , AAH82325
RefSeq Size:	3960 bp
RefSeq ORF:	2642 bp
Locus ID:	22174
Cytogenetics:	2 59.97 cM
MW:	145.2 kDa
Gene Summary:	Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including TULP1 or GAS6. Regulates many physiological processes including cell survival, migration and differentiation. Ligand binding at the cell surface induces dimerization and autophosphorylation of TYRO3 on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with PIK3R1 and thereby enhances PI3-kinase activity. Activates the AKT survival pathway, including nuclear translocation of NF-kappa-B and up-regulation of transcription of NF-kappa-B-regulated genes. TYRO3 signaling plays a role in various processes such as neuron protection from excitotoxic injury, platelet aggregation and cytoskeleton reorganization. Plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211050