

Product datasheet for **MR211051**

Tyro3 (NM_019392) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tyro3 (NM_019392) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tyro3
Synonyms:	AI323366; Brt; Dtk; Etk-2; etk2/tyro3; Rse; Sky; Tif; tk19-1; TK19-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211051 representing NM_019392
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCTGAGGGCGAGCATGGGGTGGCCGGGGCTCCGGCCGCTGCTGCTGGCGGGACTGGCTTCTCTGC
 TGCTCCCCGGGTCTGCGGCCGACGGCCTGAAGCTCATGGGCGCCCCAGTGAAGATGACCGTGTCTCAGGG
 GCAGCCAGTGAAGCTCAACTGCAGCGTGGAGGGGATGGAGGACCTGACATCCACTGGATGAAGGATGGC
 ACCGTGGTCCAGAATGCAAGCCAGGTGTCCATCTCCATCAGCGAGCACAGCTGGATTGGCTTACTCAGCC
 TAAAGTCAGTGAACGGTCTGATGCTGGCCTGTACTGGTGCCAGGTGAAGGATGGGGAGGAAACCAAGAT
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 GGAGAGGACTCACTAAGGTTGGGGACCTGCTCCCTCTCCCTCTGTTTTAAATGTGACAGGAGTGACCCA
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 GGGATCCCCAGAAGGACCTGATTTTGGCTGTGTGCCTCCAATGCAATTGGTGATGGCCCTGGAGTCA
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 ACCAGAGGCTGTTGTGCTGCAGCAAGGGCTACTGCCTCACAGTAGCTGT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211051 representing NM_019392
 Red=Cloning site Green=Tags(s)

MALRRSMGWPLRPLLLAGLASLLPGSAAAGLKLMGAPVKMTVSQGQPVKLNCSVEGMEDPDIHWMKDG
 TVVQNASQVSIISSEHSWIGLLSLKSVERSDAGLYWCQVKDGEETKISQSVWLTVEGVFFTVPEPKDLAV
 PPNAPFQLSCEAVGPPPEVTIYWWRGLTKVGGPAPSPSVLNTVGTQRTEFSCEARNIKGLATSRPAIVR
 LQAPPAAPFNTTVTTISSYNASVAWVPGADGLALLHSCVTQVAHAPGEWEALAVVVPVPPFTCLLRNLAP
 ATNYSLRVRCANALGPSYGDWVPFQTKGLAPARAPQNFHAIRTDGLILEWEEVIPEDPGEGPLGPYKL
 SWVQENGTQDELMEVETRANLTDWDPQKDLILRVCASNAIGDGPWSQPLVVSSHDAHGRQGGPPHSRTSWV
 PVVLGVLTAITAAALAILLRKRRKTRFQAFDSVMARGEPAVHFRAARSFNRRERPERIEATLDSLGI
 SDELKEKLEDVLIPEQQFTLGRMLGKGEFGSVREAQLKQEDGSFVKVAVKMLKADIIASSDIEEFLREAA
 CMKEFDHPHVAKLVGVSLSRAKGRLPIMVILPFMKHGDHAFLLASRIGENPFNLPLQTLVRFMVDIA
 CGMEYLSSRNFIHRDLAARNCLAEADMTVCVADFGLSRKIYSGDYRQGCASKLPVKWLALLESADNLYT
 VHSVDVAFGVTMWEIMTRGQTPYAGIENAEIYNYLIGGNRLKQPPECMEEVYDLMYQCWSADPKQRPST
 CLRMELENILGHLVLSSTQDPLYINIERAEQPTESGSPVHCGERSSEAGDGSVGVAVGGIPSDSRYI
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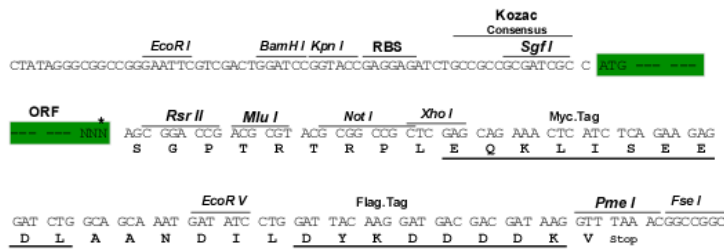
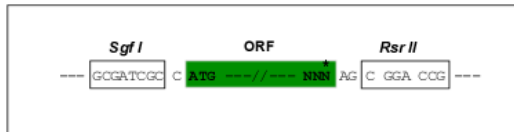
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9095_a10.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:

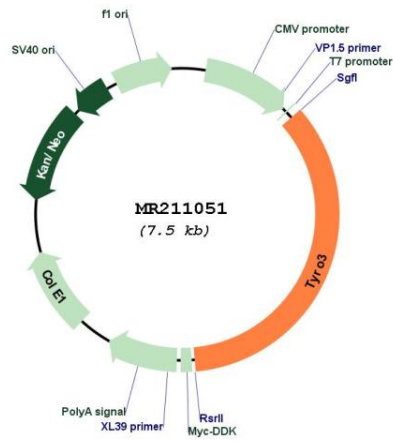
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_019392
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:	NM_019392.2 , NP_062265.2
RefSeq Size:	4005 bp
RefSeq ORF:	2643 bp
Locus ID:	22174
UniProt ID:	P55144
Cytogenetics:	2 59.97 cM
MW:	96.2 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 MR211051