

## Product datasheet for **MC222377**

### Tyro3 (NM\_019392) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tyro3 (NM_019392) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tyro3
Synonyms:	A1323366; 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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**Fully Sequenced ORF:** >MC222377 representing NM\_019392  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCTGAGGCGGAGCATGGGGTGGCCGGGGCTCCGGCCGCTGCTGCTGGCGGACTGGCTTCTCTGC  
 TGCTCCCCGGGTCTGCGGCCGACGGCCTGAAGCTCATGGCGCCCCAGTGAAGATGACCGTGTCTCAGGG  
 GCAGCCAGTGAAGCTCAACTGCAGCGTGGAGGGATGGAGGACCTGACATCCACTGGATGAAGGATGGC  
 ACCGTGGTCCAGAATGCAAGCCAGGTGTCCATCTCCATCAGCGAGCACAGCTGGATTGGCTTACTCAGCC  
 TAAAGTCAGTGAACGGTCTGATGCTGGCCTGTACTGGTGCCAGGTGAAGGATGGGGAGGAAACCAAGAT  
 TTCTCAGTCAGTATGGCTCACTGTCGAAGGTGTGCCATTCTTACAGTGAACCAAAAAGATCTGGCGGTG  
 CCACCAATGCCCTTTTCAGCTGTCTGTGAGGCTGTGGTCTCCAGAACCCGTAACCATTTACTGGT  
 GGAGAGGACTCACTAAGTTGGGGGACCTGCTCCCTCTCCCTCTGTTTTAAATGTACAGGAGTGACCCA  
 GCGCACAGAGTTTTCTGTGAAGCCCGAACATAAAAGGCCTGGCCACTTCCCGACCAGCCATTGTTCCG  
 CTTCAAGCACCGCTGCAGCTCCTTTAACACCACAGTAACAACGATCTCCAGCTACAACGCTAGCGTGG  
 CCTGGGTGCCAGGTGCTGACGGCCTAGCTCTGCTGCATTCTGTACTGTACAGGTGGCACACGCCCCAGG  
 AGAATGGGAGGCCCTTGCTGTTGTGTTCTGTGCCACCTTTTACCTGCCTGCTTCGGAACTTGGCCCT  
 GCCACCAACTACAGCCTTAGGGTGCCTGTGCCAATGCCTTGGGCCCTTCTCCCTACGGCGACTGGGTGC  
 CCTTTCAGACAAAGGGCCTAGCGCCAGCCAGAGCTCCTCAGAAATTTCCATGCCATTTCGTACCGACTCAGG  
 CCTTATCTGGAATGGGAAGAAGTATTCTGAGGACCTGGGAAGGCCCTTAGGACCTATAAGCTG  
 TCCTGGGTCCAAGAAAATGGAACCCAGGATGAGCTGATGGTGAAGGGACCAGGGCCAATCTGACCGACT  
 GGGATCCCCAGAAGGACCTGATTTTGGGTGTGTGCTCCAATGCAATTGGTGATGGGCCCTGGACTCA  
 GCGCACTGGTGGTCTTCTCATGACCATGCAGGAGGCAGGGCCCTCCCCACAGCCGCACATCCTGGGTG  
 CCTGTGGTCTGGGCGTCTCACGCCCTGATCACAGCTGCTGCCTTGGCCCTCATCCTGCTTCGGAAGA  
 GACGCAAGGAGACGCGTTTTGGGCAAGCCTTTGACAGTGTATGGCCGAGGGGAGCCAGCTGTACACTT  
 CCGGGCAGCCGATCTTCAATCGAGAAAGGCCTGAACGCATTGAGGCCACATTGGATAGCCTGGGCATC  
 AGCGATGAATTGAAGGAAAAGCTGGAGGATGCTCCTATTCCAGAGCAGCAGTTACCCTCGTGGATGT  
 TGGGCAAAGGAGATTTGGATCAGTGCAGGAGCCAGCTAAAGCAGGAAGATGGCTCCTTCGTGAAAGT  
 GGCAGTGAAGATGCTGAAAGCTGACATCATTGCCTCAAGCGACATAGAAGAGTTCCTCCGGGAAGCAGCT  
 TGCATGAAGGATTTGACCATCCACACGTGCCAAGCTTGTGGGGTGAAGCTCCGGAGCAGGGCTAAAG  
 GTCGTCTCCCCATTCCCATGGTATCCTGCCCTTTCATGAAACATGGAGACTTGCACGCTTTCTGCTCGC  
 CTCCCCAATCGGGGAGAACCCTTTAACCTGCCCTCCAGACCCTGGTCCGGTTCATGGTGGACATTGCC  
 TGTGGCATGGAGTACCTGAGCTCCCGAACTTCATCCACCGAGACCTAGCAGCTCGGAATTGCATGCTGG  
 CCGAGGACATGACAGTGTGTGGCTGATTTTGGACTCTCTCGGAAAATCTATAGCGGGGACTATTATCG  
 TCAGGGCTGTGCCTCAAATTGGCCGTCAAGTGGCTGGCCCTGGAGAGCTTGGCTGACAACCTGTATACT  
 GTACACAGTGTGTGGGCCTTCGGGGTGACCATGTGGGAGATCATGACTCGTGGGCAGACGCCATATG  
 CATGGAGGAAGTGTATGATCTCATGTACCAGTGTGGAGCGCCGACCCCAAGCAGCGCCCAAGCTTCACG  
 TGTCTGCGAATGGAACCTGGAGAACATTCTGGGCCACCTGTCTGTGCTGTCCACCAGCCAGGACCCCTGT  
 ACATCAACATTGAGAGAGCTGAGCAGCCTACTGAGAGTGGCAGCCCTGAGGTCCACTGTGGAGAGCGATC  
 CAGCAGCGAGGACGGGACGGCAGTGGCGTGGGGCAGTAGGTGGCATCCCCAGTGACTCTCGGTACATC  
 TTCAGCCCCGGAGGGCTATCCGAGTACCAGGGCAGCTGGAGCAGCAGCCAGAAAAGCCCCCTCAATGAGA  
 ACCAGAGGCTGTTGTTGCTGCAGCAAGGGCTACTGCCTCACAGTAGCTGT**TAA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_019392  
**Insert Size:** 2643 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>RefSeq:</b>	<a href="#">NM_019392.2</a> , <a href="#">NP_062265.2</a>
<b>RefSeq Size:</b>	4005 bp
<b>RefSeq ORF:</b>	2643 bp
<b>Locus ID:</b>	22174
<b>UniProt ID:</b>	<a href="#">P55144</a>
<b>Cytogenetics:</b>	2 59.97 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (A).</p>