

Product datasheet for **MR204638**

Tsta3 (NM_031201) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tsta3 (NM_031201) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tsta3
Synonyms:	A1256181; FX; Tstap35b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204638 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGAACCCCATGGATCCATGAGGATCCTAGTGACAGGGGGCTCTGGACTGGTGGGTAGAGCCATCC
AGAAGGTGGTTGCAGATGGGGCCGGCTTACCTGGAGAGGAATGGGTGTTGTCTCCTCAAAGATGCAGA
TCTGACGGATGCAGCCAAACCAAGCACTCTCCAGAAAGTACAGCCCACCCACGTCATCCATCTCGCT
GCAATGGTAGGCGGCCTTTCCGGAATATCAAATACAACCTGGATTTCTGGCGGAAAAACGTGCACATCA
ATGACAACGTCTGCATTTCGGCCTTCGAGGTGGGCGCTCGCAAGGTGGTCTCCTGCCTGTCCACCTGCAT
CTTCCCTGACAAGACCACCTATCCTATTGACGAGACAATGATCCACAACGGCCCGCTCACAGCAGCAAT
TTCGGGTACTCATACGCCAAGAGGATGATTGACGTGCAGAACAGAGCCTACTTCCAGCAGCACGGTGTGA
CCTTACCCGCCGTCATCCCTACCAATGTCTTTGGGCCTTATGACAACCTCAACATCGAAGATGGCCACGT
GCTACCCGGCCTCATCCATAAGGTGCACCTGGCCAAGAGTAGTGACTCGGCCCTGACGGTGTGGGTACA
GGGAAGCCGCGGAGGCAGTTCATCTACTCACTGGACCTCGCCCGGCTCTTCATCTGGTCTACGGGAGT
ACAGTGAGGTGGAGCCATCATCTCTCAGTGGGTGAGGAAGTGAAGTGCCATCAAGGAGGCAGCTGA
GGCTGTAGTGGAGCCATGGACTTCAATGGGGAAGTCACTTTTGATTCAACAAAGTCAGATGGGCAATAT
AAGAAGACAGCCAGCAATGGCAAGTTGCGGTCTACTTGCCCGACTTCCGTTTTCACACCCCTCAAGCAGG
CTGTGAAGGAAACCTGCACCTTGGTTCACCGACAACCTATGAGCAGGCCCGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204638 protein sequence
Red=Cloning site Green=Tags(s)

MGEPHGSMRILVTGGSLVGRAIQKVVADGAGLPGEWVFVSSKDADLTDAAQTQALFQKVQPTHVIHLA
 AMVGGFLFRNIKYNLDFWRKNVHINDNVLHSAFVVGARKVVSCLSTCIFPKTTYPIDETMIHNGPPHSSN
 FGYSYAKRMIDVQNRAYFQQHGCTFTAVIPTNVFGPYDNFNIEDGHVLPGLIHKVHLAKSSDSALTWGWT
 GKPRRQFIYSLDLARLFIWVLRREYSEVEPIILSVGEEDEVSIKEAAEAVVEAMDFNGEVTDFDSTKSDGQY
 KKTASNGKLRSYLPDFRFTPFKQAVKETCTWFTDNYEQARK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_031201

ORF Size: 966 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:

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_031201.1](#), [NP_112478.1](#)

RefSeq Size: 1329 bp

RefSeq ORF: 966 bp

Locus ID: 22122

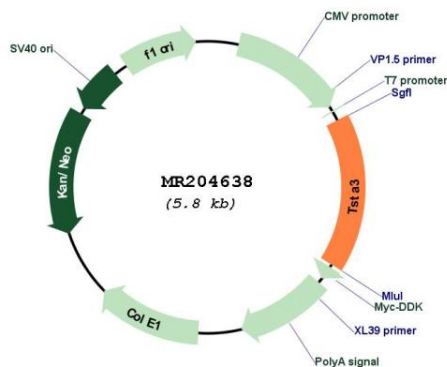
UniProt ID: [P23591](#)

Cytogenetics: 15 35.1 cM

MW: 35.9 kDa

Gene Summary: Catalyzes the two-step NADP-dependent conversion of GDP-4-dehydro-6-deoxy-D-mannose to GDP-fucose, involving an epimerase and a reductase reaction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204638