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Product datasheet for MC220072

Tcf3 (NM_001164149) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcf3 (NM_001164149) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tcf3
Synonyms:	A1; AA408400; ALF2; AW209082; bHLHb21; E2A; E12; E12/E47; E47; KA1; ME2; Pan1; Pan2; TCF-3; Tcfe2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC220072 representing NM_001164149
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGAACCAGTCTCAGAGAATGGCACCCGTGGGCTCTGACAAGGAACTGAGTGACCTCCTGGACTTCA
GCATGATGTTCCCGCTACCTGTGGCCAATGGGAAGAGCCGGCCCGCCTCCCTCGGGGGAACCCAGTTTGC
AGGCTCAGGACTGGAGGACCGACCCAGCTCAGGCTCCTGGGGCAGCAGTGACCAGAACAGTTCTTCCTTT
GACCCTAGCCGGACATACAGCGAAGGTGCCCACTTCAGTGACTCCCACAGCAGCCTGCCGCCTTCCACGT
TCCTAGGAGCTGGGCTTGGAGGCAAGGGCAGTGAGCGGAATGCCTATGCCACCTTTGGGAGAGACACCAG
TGTTGGCACCTTGAGTCAGGCTGGCTTCCTGCCAGGTGAGCTGAGCCTCAGCAGTCCCGGGCCACTGTCC
CCATCGGGCATCAAGAGCAGCTCCCAGTATTACCCCTCATTCCCCAGCAACCCTCGTCGGAGAGCTGCAG
ATGGTGGCCTGGATACTCAGCCGAAGAAGGTCCGGAAGGTTCCGCCTGGTCTCCCTTCCTCGGTGTATCC
GCCCAGCTCAGGTGACAGCTACAGCAGGGATGCTGCAGCCTACCCCTCCGCCAAGACCCCCAGCAGCGCT
TACCCCTCCCCCTTCTACGTGGCAGATGGCAGCCTGCACCCATCAGCTGAGCTCTGGAGTACGCCTAGCC
AGGTGGGCTTTGGGCCCATGCTAGGTGACGGCTCTTCCCCTCTGCCCCTTGCACCGGGCAGCAGCTCCGT
GGGCAGTGGTACCTTTGGGGGCCTCCAGCAGCAGGATCGCATGGGCTACCAGCTGCATGGATCTGAGGTT
AATGGCTCGCTCCCAGCTGTATCCAGCTTTTCGGCTGCCCCTGGCACTTACAGTGGGACTTCCGGCCACA
CGCCCCCTGTGAGTGGGGCCGCAGCTGAAAGCCTCCTAGGCACCCGAGGGACTACAGCCAGCAGCTCAGG
GGATGCCCTTGGGAAGGCACTGGCCTCGATCTACTCCCCGGATCACTCCAGCAATAATTTCTCACCTAGC
CCCTCAACGCCTGTGGGTTCACCCCAGGGCCTGCCAGGGACATCACAGTGGCCCCGGGCAGGAGCGCCCA
GTGCCTTATCCCCCAACTACGATGCAGGTCTCCATGGCCTGAGCAAGATGGAGGACCGCTTGGACGAGGC
CATCCATGTCCTGCGAAGCCACGCTGTTGGCACCGCTAGCGATCTCCATGGGCTTTTGCCTGGCCATGGC
GCACTGACCACGAGCTTCACCGGCCCCATGTCACTGGGCGGGCGGCATGCCGGCCTGGTCGGGGGAAGCC
ATCCTGAGGAGGGCCTCACAAGTGGGGCCAGTCTTTTGCATAACCATGCCAGCCTCCCCAGCCAGCCCAG
TTCCCTCCCTGACCTCTCACAGAGACCTCCCGACTCCTATAGTGGACTCGGGAGGGCAGGCACAACAGCG
GGTGCCAGCGAGATCAAGCGGGAGGAGAAAGAGGATGAGGAAATCGCATCAGTAGCCGACGCCGAAGAGG
ACAAGAAGGACCTGAAGGTCCCACGCACGCGCACCAGCCCAGACGAGGACGAGGACGACCTTCTCCCCCC
AGAGCAGAAGGCGGAGCGGGAGAAGGAGCGCCGGGTGGCCAATAATGCCCGAGAGCGCCTGCGGGTCCGC
GACATCAATGAGGCCTTTAAGGAGCTCGGCCGCATGTGCCAGCTGCACCTCAGCAGCGAGAAGCCGCAGA
CCAAACTGCTCATCCTGCACCAGGCCGTGGCCGTCATCCTCAGCCTGGAGCAGCAGGTGCGAGAACGCAA
CCTGAACCCCAAAGCAGCCTGCTTGAAGCGGAGGGAGGAGGAGAAGGTGTCTGGCGTGGTCGGGGACCCA
CAGCTGGCCCTGTCAGCCGCCCACCCGGGCCTGGGTGAGGCCCACAACCCAGCCGGGCACCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001164149

Insert Size: 1956 bp

OTI Disclaimer: 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).

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_001164149.1, NP_001157621.1
RefSeq Size:	3314 bp
RefSeq ORF:	1956 bp
Locus ID:	21423
UniProt ID:	P15806
Cytogenetics:	10 39.72 cM
Gene Summary:	Transcriptional regulator. Involved in the initiation of neuronal differentiation. Heterodimers between TCF3 and tissue-specific basic helix-loop-helix (bHLH) proteins play major roles in determining tissue-specific cell fate during embryogenesis, like muscle or early B-cell differentiation. Dimers bind DNA on E-box motifs: 5'-CANNTG-3'. Binds to the kappa-E2 site in the kappa immunoglobulin gene enhancer. Binds to IEB1 and IEB2, which are short DNA sequences in the insulin gene transcription control region.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) has two alternate splice sites in the coding region, compared to variant 1. The resulting isoform (3) lacks two internal aa, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.