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Product datasheet for MC229487

Nfat5 (NM_001286260) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfat5 (NM_001286260) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nfat5
Synonyms:	AI225870; B130038B15Rik; CAG-8; CAG80; mKIAA0827; NFATL1; nfatz; OREBP; TonEBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC229487 representing NM_001286260
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCTCGGACTTCATCTCATTGCTCAGCGCGGACCTAGACCTGGAATCGCCCAAGTCCCTGTACTCGC
GAGAATCTGTCTATGATCTTCTCCCAAAGGAGTTACAGTTACCTCCACCTAGAGAAACATCTGTAGCATC
AATGAGTCAGACAAGCGGTGGTGAGGCAGGCTCGCCTCCTCCAGCTGTAGTTGCTGCTGATGCTTCTTCA
GCTCCCTCCTCTTCCTCCATGGGCGGTGCTTGCAGCTCCTTTACCACCTCTTCCAGCCCTACCATTTATT
CTACCTCAGTCACCGACAGCAAGGCTATGCAAGTGGAGAGCTGCTCCTCAGCCGTGGGGGTAAGTAACAG
AGGGGTAAGTGAAAAGCAGTTAACCGGTAACACAGTTCAGCAGCATCCATCAACCCCGAAGAGGCACACA
GTTTTGTACATCTCACCACCACCTGAGGACTTGCTGGATAACAGTCGGATGTCCTGCCAGGATGAGGGGT
GTGGATTGGAATCTGAGCAGAGCTGCAGTATGTGGATGGAGGATTCCCCCTCCAACTTCAGTAACATGAG
CACCAGTTCCTACAATGATAACACTGAGGTACCTCGTAAATCACGAAAACGAAATCCAAAGCAGAGGCCG
GGGGTCAAACGACGAGATTGTGAAGAATCTAATATGGATATATTTGATGCCGACAGTGCCAAAGCACCTC
ACTATGTGCTTTCTCAGCTTACCACGGACAACAAAGGCAACTCAAAAGCTGGAAATGGAACATTGGACAG
CCAAAAGGGAACTGGAGTAAAGAAGAGCCCTATGTTGTGCGGACAGTATCCGGTTAAAAGTGAGGGGAAG
GAGCTGAAGATAGTGGTACAGCCTGAAACCCAACACCGAGCCCGGTACCTGACAGAGGGCAGCCGAGGCT
CTGTAAAAGACAGAACACAGCAAGGCTTTCCTACGGTGAAGCTGGAAGGCCATAATGAACCAGTGGTGTT
GCAGGTATTTGTGGGCAATGATTCTGGTCGAGTAAAACCACATGGATTCTATCAGGCCTGTAGAGTAACT
GGGCGAAATACAACTCCCTGCAAAGAAGTGGACATTGAAGGTACCACTGTTATAGAAGTTGGTCTTGATC
CTAGCAACAACATGACACTGGCGGTGGACTGTGTTGGAATATTGAAGCTGAGGAATGCCGATGTTGAAGC
CAGAATTGGAATTGCTGGATCTAAGAAAAAGAGCACTCGTGCCAGATTGGTTTTTCGAGTTAATATCACA
AGGAAAGATGGCTCTACTCTGACATTGCAGACACCTTCTTCCCCCATTTTATGCACTCAGCCAGCAGGAG
TTCCTGAGATCTTAAAGAAAAGCTTGCATAGCTGTTCAGTGAAAGGAGAGGAAGAAGTATTTTTAATTGG
GAAAAACTTTCTGAAAGGAACTAAAGTTATTTTCCAGGAAAATGTTTCTGATGAAAACTCTTGGAAATCA
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GAAGCTGAAATTGACATGGAGTTATTCCATCAGAACCATCTTATTGTGAAGGTTCCTCCGTATCATGACC
AACATATAACTTTGCCTGTATCAGTGGGAATATATGTTGTGACCAATGCTGGAAGATCTCATGATGTTCA
GCCATTTACGTACACTCCGGATCCAGCAGCTGGTGCTTTGAATGTAAATGTGAAAAAGGAGATATCTAGT
CCAGCAAGACCTTGCTCTTTTGAAGAAGCCATGAAAGCAATGAAAACGACTGGATGTAACGTAGATAAGG
TGACTATCCTTCCTAATGCCCTGATCACTCCACTCATATCAAGCAGTATGATTAAGACTGAAGATGTTAC
TCCAATGGAAGTAACTTCAGAAAAAAGATCTTCCCCAATTTTTCAGACTACAAAGAGCATTGGATCAACC
CAGCAAACCTTAGAAACTATTTCTAACATAGCGGGGGGTGCACCCTTCTCCTCACCGTCGTCATCTTCCC
ACTTAACTCCTGAAAGTGAGAATCAGCAGCAGCTTCAGCCCAAGGCATACAACCCAGAGACCCTGACAAC
TATCCAGACACAGGACATCTCACAGCCCGGGACCTTTCCCGCAGTTTCTGCTGCTAGTCAGCTGCCCAGC
AGCGATGCACTACTGCAGCAGGCAACACAGTTTCAGACAAGAGAAGCTCAGTCCAGAGACACAATACAGT
CAGATACAGTGGTTAACTTGTCACAGTTAACTGAAGCATCACAGCAGCAGCAATCCCCACTACAAGAACA
AGCACAAACGTTACAGCAGCAGATACCATCAAATATTTTTCCATCGCCAAGCAGTGTCAGCCAGCTCCAG
AGTACTATTCAGCAGCTGCAAGCAGGAAGTTTCACAGGCAGCGCTGCTGGCGGCAGGAGTGGAAGCGTTG
ATTTGGTCCAGCAGGTTTTAGAGGCACAACAGCAGTTATCGTCTGTTCTGTTTTCTACTCCAGATGGGAA
TGAGAATGTTCAAGAACAGCTTAATGCAGACATTTTCCAAGTCAGTCAAATTCAAAATAGTGTAAGCCCT
GGAATGTTTTCTTCAGCGGAGTCTGCAGTTCACACTAGACCAGATAACTTACTACCTGGGAGGGCTGACA
GCGTCCATCAACAGACTGAAAATACACTGTCTAATCAGCAGCAGCAGCAACAGCAGCAGCAGCAAGTGAT
GGAGTCATCAGCTGCAATGGTGATGGAGATGCAGCAGAGCATTTGCCAAGCAGCTGCCCAGATCCAGTCA
GAGCTGTTTCCTTCAGCTGCTTCAGCAAGTGGAAGCCTTCAGCAGTCTCCAGTTTACCAGCAGCCTTCTC
ACATGATGAGTGCACTGCCTACCAACGAGGACATGCAGATGCAGTGTGAGCTGTTCTCGTCTCCCCCTGC
AGCTTCTGGAAACGAAACTTCCACAACCACCACGCCACAGGTGGCAACCCCTGGCTCCACCATGTTTCAG
ACACCAAGTTCAGGAGATGGAGAAGAAACTGGAGCACAAGCAAAACAGATTCAGAACAGCGTCTTTCAGA
CAATGGTCCAAATGCAGCGCAGTGGTGACAGCCAACCTCAAGTAAACCTCTTTTCATCTACAAAAAATAT
AATGAGTGTTCAGAATAATGGTACCCAGCAACAAGGGAATAGCTTGTTCCAGCAAGGGAGCGAGATGATG
TCACTTCAGTCTGGGAACTTTTTGCAGCAGTCCTCTCATTCACAGGCTCAGCTCTTTCATCCTCAAAATC
CTATTGCTGATGCTCAGAACCTTTCCCAGGAAACTCAAGGTTCAATTTTTCATAGTCCAAATCCTATTGT
CCACAGTCAAACTTCCACAGCATCCTCTGAACAACTGCAGCCTTCAATGTTTCACTCTCAGAATACCATT
GCTGTGTTACAGGGCTCTTCAGTTCCTCAAGACCAGCAGTCACCCAACATATTTCTTTCCCAAAGTTCTA
TCAATAATCTTCAAACTAACACAGTAGCCCAAGAAGAGCAGATTTCATTTTTTGCAGCACAGAACTCAAT
TTCTCCACTTCAGTCAACATCAAACACTGAGCAGCAAGCTGCTTTCCAACAGCAGCCTCCAATCTCACAC
ATCCAGACCCCTATTCTTTCCCAGGAACAGGCACAACCCTCTCAGCAAGGGTTATTTCAGCCTCAGGAAA
GCTTACACTCACACATAACCCCAGACGCTTGCAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001286260

Insert Size: 3678 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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).

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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_001286260.1, NP_001273189.1
RefSeq Size:	4725 bp
RefSeq ORF:	3678 bp
Locus ID:	54446
UniProt ID:	Q9WV30
Cytogenetics:	8 53.93 cM
Gene Summary:	Transcription factor involved in the transcriptional regulation of osmoprotective and inflammatory genes. Regulates hypertonicity-induced cellular accumulation of osmolytes. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (c) uses an alternate splice site and lacks a portion of the 3' coding region, compared to variant b. This results in a shorter protein (isoform c) with a distinct C-terminus, compared to variant b. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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