

Product datasheet for **MC224498**

Nfat5 (NM_133957) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfat5 (NM_133957) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nfat5
Synonyms:	AI225870; B130038B15Rik; CAG-8; CAG80; mKIAA0827; NFATL1; nfat5; OREBP; TonEBP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224498 representing NM_133957 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGGTGCTTGCAGCTCCTTACCACCTCTCCAGCCCTACCATTTATTCTACCTCAGTCACCGACA
GCAAGGCTATGCAAGTGGAGAGCTGCTCCTCAGCCGTGGGGTAAGTAACAGAGGGGTAAGTAAAAAGCA
GTTAACCGGTAACACAGTTCAGCAGCATCCATCAACCCGAAGAGGCACACAGTTTTGTACATCTCACCA
CCACCTGAGGACTTGCTGGATAACAGTCGGATGTCCTGCCAGGATGAGGGGTGTGGATTGGAATCTGAGC
AGAGCTGCAGTATGTGGATGGAGGATCCCCCTCCAACCTCAGTAACATGAGCACCAGTTCCTACAATGA
TAACACTGAGGTACCTCGTAAATCACGAAAACGAAATCCAAAGCAGAGGCCGGGGTCAAACGACGAGAT
TGTGAAGAATCTAATATGGATATATTTGATGCCGACAGTGCCAAAGCACCTCACTATGTGCTTTCTCAGC
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CAGCCTGAAACCAACACCGAGCCCGGTACCTGACAGAGGCAGCCGAGGCTCTGTAAGAGCAACAAAC
AGCAAGGCTTTCCTACGGTGAAGCTGGAAGGCCATAATGAACAGTGGTGTGCAGGTATTTGGGGCAA
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TGGCGGTGGACTGTGTTGGAATATTGAAGCTGAGGAATGCCGATGTTGAAGCCAGAATTGGAATTGCTGG
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CTGACATTGCAGACACCTTCTCCCCCATTTTATGCACTCAGCCAGCAGGAGTTCCTGAGATCTTAAAGA
AAAGCTTCATAGCTGTTGAGTAAAGGAGAGGAAGAAGTATTTTAAATGGGAAAACTTTCTGAAAGG
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TTTGAAGAAGCCATGAAAGCAATGAAAACGACTGGATGTAACTAGATAAGGTGACTATCCTTCTAATG



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CCCTGATCACTCCACTCATATCAAGCAGTATGATTAAGACTGAAGATGTTACTCCAATGGAAGTAACTTC
 AGAAAAAGATCTTCCCAATTTTTTCAGACTACAAAGAGCATTGGATCAACCCAGCAAACCTTAGAAACT
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 CAGGCAACACAGTTCAGACAAGAGAAGCTCAGTCCAGAGACACAATACAGTCAGATCAGTGGTTAACT
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 GCAGATACCATCAAATATTTTTCCATCGCCAAGCAGTGTGAGCCAGCTCCAGAGTACTATTCAGCAGCTG
 CAAGCAGGAAGTTTCACAGGCAGCGCTGCTGGCGCAGGAGTGAAGCGTTGATTTGGTCCAGCAGGTTT
 TAGAGGCACAACAGCAGTTATCGTCTGTTCTGTTTCTACTCCAGATGGGAATGAGAATGTTCAAGAACA
 GCTTAATGCAGACATTTTCCAAGTCAGTCAAATCAAAATAGTGTAAAGCCCTGGAATGTTTTCTCAGCG
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 GGTGATGGAGATGCAGCAGAGCATTGGCAAGCAGCTGCCAGATCCAGTCAGAGCTGTTTCTTTCAGCT
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 TTCCACAACCACCCAGCCACAGGTGGCAACCCCTGGCTCCACCATGTTTCAGACACCAAGTTCAGGAGAT
 GGAGAAGAACTGGAGCACAAGCAAAACAGATTCAGAACAGCGTCTTTCAGACAATGGTCCAAATGCAGC
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 TTTTTCAGCAGTCTCTCATTACAGGCTCAGCTCTTTCATCTCAAATCCTATTGCTGATGCTCAGA
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 AGCATCCTTGAACAACGCAGCCTTCAATGTTTCACTCTCAGAATACCATTGCTGTGTTACAGGGCTCT
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 TAACTCTCCATCCAGGAGCAGCAGCAGCAACAGCAGCAACAGCAGCAGCAACAGCAACAACAA
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 CAAACATGATGTTTAGCCCAAACCAGAACCAATGGCTAGTCAGGAGCAGCAGAACCAGTCAATTTTCA
 CCAGCAAAGTAATATGGCCCAATGAACCAAGAGCAGCAGCCATGCAATTTCAGAATCAGCCTACGGTT
 TCCTCACTTCAGAACCAGGTCCTACGCAGTCTGAGTCACCACAGACCTCCTTGTTCATAGCTCTCCTC
 AGATCCAGTTGGTTCAAGGGTCACCTAGTTCTCAAGATCAGCAAGTAACTCTTCTCTCCTCAGCATC
 CATGTCTGCATTGCAAACCAGTATAAACCAACCAGACATGCAGCAGTCTCCTCTTATTTCCCAGCAAC
 AACATCCTGGAATCCAAGGAAGCACTTCTCACCCAGCCACAGGCTACTTTATTTCAACACTACAG
 GAGGCACAATAAACCAATAACAAATTTCTCCTGGCTCATCTCAGCAGACTTCAGGAATGTTCTTATTTGG
 CATTCAAATAAATTGATGAGCTTTTAACTCCGGACCAGCTACATTGCCAGATCAGCTGATGGCCATA
 AATCAGCAGGGCCAACCACAAAATGAGGGCCAATCTTCTGTGACAACACTCTTTCTCAGCAAATGCCAG
 AGACTTCCCAGTGGCTCCTCTGTGAACAGCAGTCAGAACATGGAAGATTGATTTGCTTGTTCATT
 GCAAAGCCAAGGGAACAATTTAACCGGCTCCTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_133957
 Insert Size: 4377 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:	<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:	<u>NM_133957.3, NP_598718.2</u>
RefSeq Size:	13451 bp
RefSeq ORF:	4377 bp
Locus ID:	54446
UniProt ID:	<u>Q9WV30</u>
Cytogenetics:	8 53.93 cM
Gene Summary:	<p>Transcription factor involved in the transcriptional regulation of osmoprotective and inflammatory genes. Regulates hypertonicity-induced cellular accumulation of osmolytes. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (a) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon. This results in a protein (isoform a) with a shorter N-terminus, compared to isoform 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 extent of this transcript is supported by transcript alignments.</p>