

## 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; nfat5; OREBP; TonEBP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229487 representing NM\_001286260  
**Red=Cloning site Blue=ORF Orange=Stop codon**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCCTCGGACTTCATCTCATTGCTCAGCGGGACCTAGACCTGGAATCGCCCAAGTCCCTGTACTCGC  
GAGAATCTGTCTATGATCTTCTCCAAAGGAGTTACAGTTACCTCCACCTAGAGAAACATCTGTAGCATC  
AATGAGTCAGACAAGCGGTGGTGGAGGCAGGCTCGCTCCTCCAGCTGTAGTTGCTGCTGATCTTCTTCA  
GCTCCCTCCTCTTCTCCATGGGCGGTGCTTGCAGCTCCTTACCACCTCTTCCAGCCCTACCATTATT  
CTACCTCAGTCACCGACAGCAAGGCTATGCAAGTGGAGAGCTGCTCCTCAGCCGTGGGGTAAAGTAACAG  
AGGGGTAAGTGAAGGACAGTTAACCGGTAACACAGTTCAGCAGCATCCATCAACCCCGAAGAGGCACACA  
GTTTTGTACATCTCACCACCCTGAGGACTTGTGGATAACAGTCGGATGTCCTGCCAGGATGAGGGGT  
GTGGATTGGAATCTGAGCAGAGCTGCAGTATGTGGATGGAGGATCCCCCTCAAACCTCAGTAACATGAG  
CACCAGTTCCTACAATGATAACTGAGGTACCTCGTAAATCACGAAAACGAAATCCAAAGCAGAGGCCG  
GGGTCAAACGACGAGATTGTGAAGAATCTAATATGGATATATTTGATGCCGACAGTGCCAAAGCACCTC  
ACTATGTGCTTTCTCAGTTACCACGGACAACAAAGGCAACTCAAAGCTGGAATGGAACATTGGACAC  
CCAAAAGGGAAGTGGAGTAAAGAAGAGCCCTATGTTGTGCGGACAGTATCCGGTTAAAAGTGAAGGGAAG  
GAGCTGAAGATAGTGGTACAGCCTGAAACCCAACCCGAGCCCGGTACCTGACAGAGGGCAGCCGAGGCT  
CTGTAAGAGACAGAACACAGCAAGGCTTCTACGGTGAAGCTGGAAGGCCATAATGAACAGTGGTGT  
GCAGGTATTTGTGGCAATGATTCTGGTCGAGTAAAACCATGGATTCTATCAGGCCTGTAGAGTAACT  
GGGCGAAATACAACCTCCCTGCAAAGAAGTGGACATTGAAGGTACCACTGTTATAGAAGTTGGTCTTGATC  
CTAGCAACAACATGACTGCGGTGGACTGTGTTGGAATATTGAAGCTGAGGAATGCCGATGTTGAAGC  
CAGAATTGGAATTGCTGGATCTAAGAAAAGAGCACTCGTGCCAGATTGGTTTTTCGAGTTAATATCACA  
AGGAAAGATGGCTCTACTCTGACATTGCAGACACCTTCTTCCCCATTTATGCACTCAGCCAGCAGGAG  
TTCTGAGATCTTAAAGAAAAGCTTGCATAGCTGTTTCAGTGAAAGGAGAGGAAGAAGTATTTTAATTGG  
GAAAACCTTTCTGAAAGGAACTAAAGTTATTTCCAGGAAAATGTTTCTGATGAAAACCTTTGGAATCA  
GAAGCTGAAATTGACATGGAGTTATTCCATCAGAACCATCTTATTGTGAAGGTTCTCCGTATCATGACC



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AACATATAACTTTGCCTGTATCAGTGGGAATATATGTTGTGACCAATGCTGGAAGATCTCATGATGTTCA  
 GCCATTTACGTACTCCGGATCCAGCAGCTGGTCTTTGAATGTAAATGTGAAAAAGGAGATATCTAGT  
 CCAGCAAGACCTTGCTCTTTTGAAGAAGCCATGAAAGCAATGAAAACGACTGGATGTAACGTAGATAAGG  
 TGACTATCCTTCTAATGCCCTGATCACTCCACTCATATCAAGCAGTATGATTAAGACTGAAGATGTTAC  
 TCCAATGGAAGTAACTTCAGAAAAAGATCTTCCCAATTTTTCAGACTACAAAGAGCATTGGATCAACC  
 CAGCAAACCTTAGAACTATTTCTAACATAGCGGGGGTGCACCCTTCTCCTCACCGTCGTCATCTTCCC  
 ACTTAACTCCTGAAAGTGAGAATCAGCAGCAGCTTCAGCCCAAGGCATACAACCCAGAGACCCTGACAAC  
 TATCCAGACACAGGACATCTCACAGCCCGGACCTTCCCGCAGTTTCTGCTGCTAGTCAGCTGCCCAGC  
 AGCGATGCACTACTGCAGCAGGCAACACAGTTTCAGACAAGAGAAGCTCAGTCCAGAGACACAATACAGT  
 CAGATACAGTGGTTAACTTGTCACAGTTAACTGAAGCATCACAGCAGCAGCAATCCCCACTACAAGAACA  
 AGCACAACGTTACAGCAGCAGATACCATAAATATTTTTCCATCGCCAAGCAGTGTGAGCCAGCTCCAG  
 AGTACTATTGAGCAGCTGCAAGCAGGAAGTTTCACAGGCAGCGCTGCTGGCGGCAGGAGTGAAGCGTTG  
 ATTTGGTCCAGCAGGTTTGTAGGCACAACAGCAGTTATCGTCTGTTCTGTTTTCTACTCCAGATGGGAA  
 TGAGAATGTTCAAGAACAGCTTAAATGCAGACATTTTCCAAGTCAGTCAAATCAAATAGTGAAGCCCT  
 GGATGTTTTCTCAGCGGAGTCTGCAGTTCACACTAGACCAGATAACTTACTACCTGGGAGGGCTGACA  
 GGTCCATCAACAGACTGAAAATCACTGTCTAATCAGCAGCAGCAGCAACAGCAGCAGCAGCAAGTGAT  
 GGAGTCATCAGCTGCAATGGTGATGGAGATGCAGCAGAGCATTGCGCAAGCAGCTGCCCAGATCCAGTCA  
 GAGCTGTTTTCTCAGCTGCTTCAGCAAGTGGAAGCCTTCAGCAGTCTCCAGTTTACCAGCAGCCTTCTC  
 ACATGATGAGTGCCTACCAACGAGGACATGCAGATGCAGTGTGAGCTGTTCTCGTCTCCCTGC  
 AGCTTCTGAAACGAACTTCCACAACCACGCCACAGGTGGCAACCCTGGCTCCACCATGTTTCAG  
 ACACCAAGTTCAGGAGATGGAGAAGAACTGGAGCACAAGCAAAACAGATTCAGAACAGCGTCTTTCAGA  
 CAATGGTCCAAATGCAGCGCAGTGGTACAGCCAACCTCAAGTAACTCTTTTTCATCTACAAAAAATG  
 AATGAGTGTTCAGAATAATGGTACCCAGCAACAAGGGAATAGCTTGTTCAGCAAGGGAGCGAGATGATG  
 TCATCTCAGTCTGGAACTTTTTGCAGCAGTCTCTCATTACAGGCTCAGCTCTTTCATCTCAAATC  
 CTATTGCTGATGCTCAGAACCTTCCCAGGAACTCAAGTTCATTTTTCATAGTCCAAATCCTATTGT  
 CCACAGTCAAACCTCCACAGCATCTCTGAACACTGCAGCCTTCAATGTTTCACTCTCAGAATACCATT  
 GCTGTGTACAGGGCTTTCAGTTCCTCAAGACCAGCAGTCAACCAACATATTTCTTCCAAAAGTTCTA  
 TCAATAATCTTCAAACACTAACACAGTAGCCCAAGAAGAGCAGATTTCATTTTTGCAGCACAGAATCAAT  
 TTCTCCACTTCAGTCAACATCAAACACTGAGCAGCAAGCTGCTTCCAACAGCAGCCTCCAATCTCACAC  
 ATCCAGACCCCTATTCTTCCCAGGAACAGGCACAACCCTCTCAGCAAGGTTATTTGAGCTCAGGAAA  
 GCTTACACTCACATAACCCAGCAGCTTGAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-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).

**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.