OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RN208725

Nfat5 (NM_001107425) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfat5 (NM_001107425) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nfat5
Synonyms:	NF-AT5; Nfat; TonEBP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN208725 representing NM_001107425 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCCTCGGACTTCATCTCATTGCTCAGCGCGGACCTAGACCTGGAATCGCCCAAGTCCCTGTACTCGC GAGATTCTCTGAAGTTACACCCATCACAGAATTTTCATAGAGCTGGACTATTGGAAGAATCTGTCTATGA TCTTCTCCCAAAGGAGTTACAGTTACCTCCACCTAGAGAAACATCTGCAGCATCAATGAGTCAGACAAGC GGTGGCGAGGCAGGCTCGCCTCCTCCAGCTGTAGTTGCTGCCGATGCTTCTTCAGCTCCCTCCTCCTCCA TGGGCGGTGCTTGCAGCTCCTTTACCACCTCTTCCAGCCCTACCATTTATTCTACCTCAGTCACCGACAG CAAGGCTATGCAAGTGGAGAGCTGCTCCTCAGCCGTGGGGGTAAGTAACAGAGGGGTAAGTGAAAAGCAG TTAACCGGTAACACAGTTCAGCAGCATCCATCAACCCCGAAGAGGCACACAGTTTTGTACATCTCACCAC CACCTGAGGACTTGCTGGATAACAGTCGGATGTCCTGCCAGGATGAGGGGTGTGGATTGGAATCTGAGCA GAGCTGCAGTATGTGGATGGAGGATTCCCCCTCCAACTTCAGTAACATGAGCACCAGTTCCTACAATGAT AACACTGAGGTACCTCGTAAATCACGAAAACGAAATCCAAAGCAGAGGCCGGGGGTCAAACGACGAGATT GTGAAGAATCTAATATGGATATATTTGATGCCGACAGTGCCAAAGCACCTCACTATGTGCTTTCTCAGCT TACCACGGACAACAAAGGCAACTCAAAAGCTGGAAATGGAACATTGGACAGCCAAAAGGGAACTGGAGTA AAGAAGAGTCCTATGTTGTGTGGACAGTATCCGGTTAAAAGTGAGGGGAAGGAGCTGAAGATAGTGGTAC AGCCTGAAACCCAACACCGAGCCCGGTACCTGACAGAGGGCAGCCGAGGCTCCGTAAAAGATAGAACACA GCAAGGCTTTCCTACGGTGAAGCTGGAAGGTCATAATGAGCCAGTGGTGTTGCAGGTGTTTGTGGGCAAT GACTCTGGTCGAGTAAAGCCACACGGATTCTATCAGGCCTGCAGAGTGACCGGGCGAAACACAACTCCGT GCAAAGAAGTGGACATCGAAGGCACCACTGTGATAGAGGTTGGCCTCGACCCTAGCAGCAACATGACGCT GGCAGTGGACTGTGTAGGAATACTGAAGCTGAGAAATGCTGATGTTGAGGCCAGAATTGGAATTGCTGGT TCTAAGAAAAAGAGCACTCGTGCCAGATTGGTTTTTCGAGTTAATATCACGAGGAAAGATGGCTCTACTC TGACATTGCAGACACCTTCTTCCCCAATTTTATGCACTCAGCCAGCAGGAGTTCCTGAGATCTTAAAGAA AAGCTTGCATAGCTGTTCAGTGAAAGGAGAGGAAGAAGTGTTTTTAATTGGGAAGAACTTTCTGAAAGGA ACTAAAGTTATTTTCCAGGAAAATGTTTCTGATGAAAACTCTTGGAAATCAGAAGCTGAAATTGACATGG

View online »

AATTGTTCCATCAGAACCATCTTATTGTGAAAGTTCCTCCATATCATGACCAACATATAACTTTGCCTGT
ATCAGTGGGAATATATGTTGTGACCAATGCTGGAAGATCTCATGATGTTCAGCCATTTACTTACACTCCA
GATCCAGCAGCTGGTGCTTTGAGTGTAAATGTGAAAAAGGAGATATCTAGTCCAGCAAGACCTTGCTCTT
TTGAAGAAGCCTTGAAAGCAATGAAAACGACTGGCTGTAACGTAGATAAGGTAACTATCCTTCCTAATGC
CCTGATCACTCCACTCATATCGAGCAGCATGATTAAGACTGAAGATGTTACTCCAATGGAAGTAACATCA
GAGAAAAGATCTTCCCCAATTTTTCAGACTACAAAGACAGTCGGATCAACCCAGCAAACTTTAGAAACTA
TTTCTAACATAGCGGGAAATGCATCCTTTTCATCACCATCATCTTCTCACTTATCTCCTGAAAATGAAAA
TCAGCAGCAGCTTCAGCCCAAGGCATACAACCCGGAGACTCTGACAACTATCCAAACGCAAGACATCTCA
CAGCCAGGGACTTTTCCAGCGGTTTCTGCTTCTAGTCAGCTGCCCAGCAGCGATGCACTGCTGCAGCAGG
CGGCACAGTTTCAGACAAGAGACGCTCAGTCCAGAGACACAATGCAGTCAGACTCAGTGGTTAACTTGTC
ACAGTTGACTGAGGCACCACAGCAGCAGCAGTCCCCACTGCAAGAACAAGCACAGATACCATCAAATATT
TTTCCGTCGCCAAATAGTGTGAGCCAGCTCCAGAGTACTATTCAGCAGCTGCAAGCAGGAAGTTTTACAG
GCAGCACTGCTAGTGGCAGCAATGGAAGTGTTGACTTGGTCCAGCAGGTTTTAGAGGCACAACAACAGTT
ATCGTCTGTTCTGTTTTCTACTCCAGATGGTAATGAGAATGTTCAAGAACAGCTGAATGCAGACATTTTC
CAAGTCAGTCAAATTCAAAATAGTGTAAGCCCTGGAATGTTTTCCTCAACAGAGTCTGCAGTTCACACCA
GACCAGATAACTTACTACCTGGGAGGGCCGACAGCGTCCATCAGCAGACTGAAAACACACTGTCTAGTCA
GCAGCAGCAACAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAAGTGATAGAGTCTTCAGCTGCCATGGTG
ATGGAGATGCAGCAGAGCATTTGCCAAGCAGCAGCCCAGATTCAGTCAGAACTGTTTCCTTCAGCTGCTT
CAGCAAATGGAAGCCTTCAGCAGTCTCCAGTTTACCAGCAGCCTTCTCACATGATGAGCGCCCTGCCTAC
CAGCGAGGACATGCAAATGCAGTGTGAATTGTTCTCTTCCCCCCCTGCAGTTTCTGGAAATGAAACATCC
ACCACCACCACACCGCAGGTGGCAACCCCCGGCTCTACTATGTTTCAGCCGCCAAATTCAGGCGATGGAG
AAGAAACGGGAGCACAAGCAAAACAGATTCAGAGCAGTGTCTTTCAGACAATGGTCCAGATGCAGCACAG
TGGGGACAGCCAACCTCAAGTAAACCTCTTTTCATCTACAAAAAACATAATGAGTGTTCAGAGTAATGGT
ACCCAGCAACAAGGGAATAGCTTGTTCCAGCAGGGGAGCGAGATGCTGTCACTTCAGTCTGGGAGCTTCT
TGCAGCAGTCTTCTCATTCCCAGGCTCAGCTCTTTCACCCTCAGAACCCTATTGCTGATGCTCAGAGCCT
TTCCCAGGAGACTCAAGGTCCAATGTTTCATAGCGCCAATCCCATCGTCCACAGTCAGACTTCCACAGCA
TCCTCCGAACAGCTGCAGCCTTCCATGTTTCACTCGCAGAGTACCATTGCTGTACTACAGGGCTCTTCAG
TCCCTCAGGACCAGCAGTCACCCAACATATATCTTTCCCAAAGTTCCATCAGTAATCTTCAAACTAACAC
AGTAGCCCAAGAAGAGCAGATTTCATTTTTTTCAGCACAGAACTCAATTTCTCCACTTCAGTCAACATCA
AACACTGAGCAGCAAGCTGCTTTTCAACAGCAGCCTCCAATCTCGCACATCCAGACCCCTCTTCTTTCCC
AGGAACAGGCACAGCCCTCTCAGCAAGGTTTATTTCAGCCTCAGGTGGCCCTGGGCTCCCTTCCTGCTAA
TCCAATGCCTCAGAACCAGCAAGGCCCAATTTTCCAGACACAGCGCCCAATAGTTGGCATGCAGAGTAAC
TCTCCATCCCAGGAGCAGCAGCAGCAGCAACAGCAGCAGCAACAACAACAGCAGCAGCAGCAGCAGCAGA
GCATTTTATTTAGTAATCAGAATGCCATGGCTACAATGGCCTCCCAGAAGCAGCCACCACCAAACATGAT
ATTTAGCCCAAACCAGAACCCGATGGCTAGTCAAGAGCAGCAGAACCAGTCAATTTTTCACCAGCAAAGT
AATATGGCCCCAATGAACCAAGAGCAGCAGCCCATGCAGTTTCAGAATCAGCCTACGGTTTCCTCACTTC
AGAACCCAGGTCCTACGCCATCTGAGTCACCACAGACCTCCTTGTTCCATAGTTCTCCTCAGATCCAGTT
GGTTCAAGGGTCACCTAGTTCTCAAGAGCAACAAGTAACACTCTTCCTCTCTCCAGCATCCATGTCTGCA
TTGCAAACCAGTATAAACCAACCAGACATGCAGCAGTCTCCTCTTTATTCCCCACAGAACAACATCCCTG
GAATCCAAGGAAGCACTTCTTCACCCCAGCCACAGGCTGCTTTATTTCACAACACTACAGGAGGCACAAT
AAACCAACTACAAAATTCTCCTGGCTCATCTCAGCAGACTTCAGGAATGTTCTTATTTGGCATTCAAAAT
AATTGTAGTCAGCTGTTAACTTCTGGGCCAGCTACATTGCCAGAGCAGCTGATGGCCATAAATCAGCCGG
GCCAACCACAAAATGAGGGCCAATCTTCTGTGACAACACTTCTTTCTCAGCAAATGCCAGAATCTGCCCC
ACTGGCCTCCTCGGTGAACAACAGTCAGAACATGGAAAAGATCGATTTGCTTGTTTCGTTGCAAAGCCAA
GGGAACAATTTAACCGGCTCCTTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001107425

Insert Size:	4647 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_001107425.1, NP_001100895.1
RefSeq Size:	13556 bp
RefSeq ORF:	4647 bp
Locus ID:	307820
UniProt ID:	D3ZGB1
Cytogenetics:	19q12
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]