

Product datasheet for **RR208725**

Nfat5 (NM_001107425) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nfat5 (NM_001107425) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nfat5
Synonyms: NF-AT5; Nfat; TonEBP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR208725 representing NM_001107425
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGATCGCC

ATGCCCTCGGACTTCATCTCATTGCTCAGCGCGGACCTAGACCTGGAATCGCCCAAGTCCCTGTACTCGC
GAGATTCTCTGAAGTTACACCCATCACAGAATTTTCATAGAGCTGGACTATTGGAAGAATCTGTCTATGA
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AATTGTTCCATCAGAACCATCTTATTGTGAAAGTTCCTCCATATCATGACCAACATATAACTTTGCCTGT
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GGGAACAATTTAACCGGCTCCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RR208725 representing NM_001107425
 Red=Cloning site Green=Tags(s)

MPSDFISLLSADLDLESPKSLYSRDSLKLHPSQNFHRAGLLEESVYDLLPKELQLPPPETSAAASMSQTS
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 NTEVPRKSRKRNPKQRPGVKRRDCEESNMDIFDADSAKAPHYVLSQLTTDNKGNKAGNGTLDSSQKGTGV
 KKSPMLCGQYPVKSEGKELKIVVQPETQHRARYLTEGSRGSVKDRITQQGFPTVKLEGHNEPVVLQVAVGN
 DSGRVKPHGFYQACRVTRNTTPCKEVDIEGTTVIEVGLDPSSNMTLAVDCVGLKLRNADVEARIGIAG
 SKKKSTRARLVFRVNI TRKDGSTLTLQTPSSPILCTQPAGVPEILKKSLSHSCSVKGEVFLIGKNFLKG
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 EKRSSPFIQTTKTVGSTQQTLETISNIAGNASFSSPSSSHLSPENENQQQLQPKAYNPETLTTIQTQDIS
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 FSPNSVSQQLQSTIQQLQAGSFTGSTASGSNGSVDLVQQVLEAQQQLSSVLFSTPDGNNVQEQLNADIF
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 MEMQSSICQAAAQIQSELFPSAASANGSLQQSPVYQPSHMMSALPTSEDMQMCELFSSPPAVSGNETS
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 TQQQGNLQGGSEMLSLQSGSFLQQSSHSQAQLFHPQNPIDAQSLSQETQGPMPFHSANPIVHSQTSTA
 SSEQLQPSMFHSQSTIAVLQGSVVPDQDQSPNIYLSQSSISNLQNTVAQEEQISFFSAQNSISPLQSTS
 NTEQQAFAQQPPISHIQTPLLQEQQAQPSQQGLFQPVVALGSLPANMPQNPQQGPIFQTRPIVGMQSN
 SPSQEQQQQQQQQQQQQQQQQSSILFSNQNAMATMASQKQPPNMFSPNQNPMAEQEQNQSIHFQQS
 NMAMPNQEQQPMQFQNPQTVSSLQNPQTPSESPQTSLFHSSPQIQLVQGGSPSSQEQQVTLFLSPASMSA
 LQTSINQPDMMQSSPLYSQNNIPGIQGSTSSPQQAALFHNTTGGTINQLQNSPGSSQTSGMFLFGIQN
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 GNNLTGSF

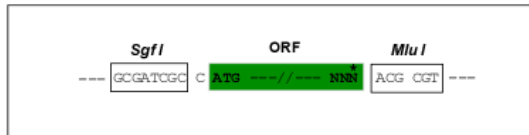
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

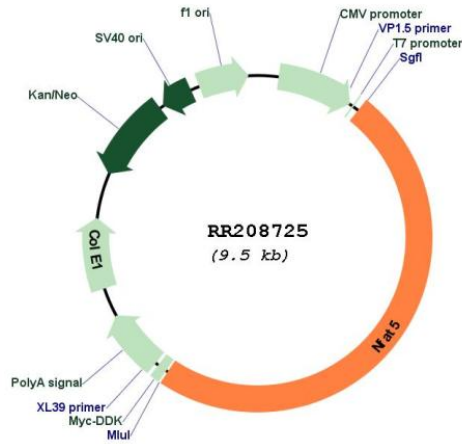
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001107425

ORF Size: 4644 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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
MW: 167.2 kDa
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]