

Product datasheet for MR231698

Nfat5 (NM_001286260) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfat5 (NM_001286260) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfat5
Synonyms:	A1225870; B130038B15Rik; CAG-8; CAG80; mKIAA0827; NFATL1; nfat5; OREBP; TonEBP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231698 representing NM_001286260 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTCGGACTTCATCTCATTGCTCAGCGGGACCTAGACCTGGAATCGCCCAAGTCCCTGTACTCGC
GAGAATCTGTCTATGATCTTCTCCAAAGGAGTTACAGTTACCTCCACCTAGAGAAACATCTGTAGCATC
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CTACCTCAGTCACCGACAGCAAGGCTATGCAAGTGGAGAGCTGCTCCTCAGCCGTGGGGTAAAGTAACAG
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Protein Sequence: >MR231698 representing NM_001286260
 Red=Cloning site Green=Tags(s)

MPSDFISLLSADLDLESPKSLYSRESVYDLLPKELQLPPPRETSVASMSQTSNGEAGSPPPVAVAADASS
 APSSSSMGACSSFTTSSSPTIYSTSVTDSKAMQVESCSSAVGVSNRGVSEKQLTGNTVQQHPSTPKRHT
 VLYISPPPEDLLNSRMSCQDEGCGLESEQSCSMWEDSPSNFSNMSTSSYNDNTEVPRKSRKRNPQR
 GVKRRDCEESNMDIFDADSAKAPHYVLSQLTTDNKGNSKAGNGLDSQKGTGVKKSPMLCGQYYPVKSEGK
 ELKIVVQPETQHRARYLTEGSRGSVKDRDRTQQGFPTVKLEGHNEPVVLQVFGNDSGRVKPHGFYQACRVT
 GRNTTPCKEVDIEGTTVIEVGLDPSNNMTLAVDCVGLKLRNADVEARIGIAGSKKKSTRARLVFRVNI
 RKDGLSTLQTPSSPILCTQPAGVPEILKSLHSCSVKGEEVFLIGKNFLKGTQVIFQENVSDENSWSK
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 PARPCSFEEAMKAMKTTGCNVDKVTILPNALITPLISSMIKTEDVTPMEVTSEKRSSPIFQTTKISIGT
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 SDALLQATQFQTREAQRSRTIQSDTVVNLSQLTEASQQQSSPLQEQAQTLQQQIPSNIFPSPSSVSQ
 STIQQQLQAGSFTGSAAGGRSGSVDLVQQVLEAQQQLSSVLFSTPDGNENVQEQLNADIFQVSIQNSVSP
 GMFSSAESAVHTRPDNLLPGRADSVHQQTENTLSNQQQQQQQQQVMESSAAMVMMQSSICQAAAQIQS
 ELFPSAASASGSLQQSPYVQQPSHMMSALPTNEDMQMCELFSSPPAASNETSTTTTPQVATPGSTM
 TPSSGDGEETGAQAKQIQNSVFQTMVQMQRSGDSQPQVNLFSSTKNIMSVQNGTQQQGNLSLQQGSEMM
 SLQSGNFLQQSSHSQAQLFHPQNPADAQNLQSETQGSIFHSPNPVHSQTSTASSEQLQPSMFHSQNTI
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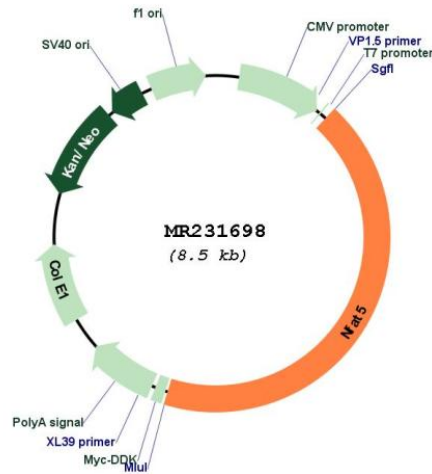
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001286260

ORF Size: 3675 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_001286260.1](#), [NP_001273189.1](#)

RefSeq Size: 4725 bp

RefSeq ORF: 3678 bp

Locus ID: 54446

UniProt ID: [Q9WV30](#)

Cytogenetics: 8 53.93 cM

MW: 132.6 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]