

Product datasheet for **RG208770**

NFATC4 (NM_004554) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFATC4 (NM_004554) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NFATC4
Synonyms:	NF-AT3; NF-ATC4; NFAT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208770 representing NM_004554
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGGCCAGCTGCGAGGATGAGGAGCTGGAATTTAAGCTGGTGTTCGGGGAGGAAAAGGAGGCC
 CCCGCTGGGCGGGGGGATTGGGGGAAGAACTGGACTCAGAGGATGCCCGCCATGCTGCCGTCTGGC
 CTTGGGAGAGCCCCCTCCCTATGGCGCTGCACCTATCGGTATTCGCCGACCTCCACCCCTCGGCCTGGC
 ATGCATTCGCCACCGCCGCGACCAGCCCTCACCTGGCACCTGGGAGAGCCAGCCGCCAGGTCGGTGA
 GGCTGGGAGGACCAGGAGGGGTGCTGGGGTGTGGGGTGGCCGTGTCTCGAGTGTCCAGCATCCG
 CATCACCTCCATCTCCACGCGGAGCCGACGAGCCTGGAGGACAACCTGATGCCTGGGGGAC
 GGCTCTCTAGAGATTACCCCCACCAGAAGGCTTTGGGGCTACAGAGAAGCAGGGGCCAGGGTGGG
 GGGCTTCTTCAGCCCAAGCCCTGGCAGCAGCAGCTGTCTCGTGGAGCTTCTTCTCCGATGCCTTGA
 TGAGGCAGCCCTGTATGCAGCCTGCGACGAGGTGGAGTCTGAGCTAAATGAGGCGCCCTCCCGCTTGGC
 CTGGGCTCCCGCTGCCCTCGCCCCGGGCTCCCTCGGCCATGGACCCCGAAGATCCCTGGAGCCTGT
 ATGGTCCAAGCCCCGGAGGCCGAGGGCCAGAGGATAGCTGGTACTCCTCAGTGTCTCTGGGCCACCCC
 AGCCTCCCGCGGCTGCCTCTCCATGTGGCAAGCGGCGTATTCCAGCTCGGGAACCCCATCTTACGCC
 TCCCCAGCTCTGTCCCGCGTGGCAGCCTGGGGGAAGAGGGGTCTGAGCCACCTCCACCACCCCATTCG
 CTCTGGCCCGGGACCCGGGCTCCCTGGTCCCTTTGACTATGTGGGGGCCACCAGCTGAGAGCATCCC
 TCAGAAGACACGGCGACTTCCAGCGAGCAGGAGTGGCTCTGCCTCGGTCTGAGGAGCCTGCCTCATGC
 AATGGGAAGTGCCTTTGGGAGCAGAGGAGTCTGTGGCTCCTCCAGGAGGTTCCCGGAAGGAGGTGGCTG
 GCATGGACTACCTGGCAGTGCCTCCCACTCGCTTGGTCCAAGGCCGATTGGGGGACACAGCCCTAT
 CTTCAGGACCTCTGCCCTACCCCACTGGACTGGCCTCTGCCAGCCAATATGAGCAGCTGGAGCTGAGG
 ATCGAGGTACAGCCTAGAGCCCACCACCGGCCACTATGAGACAGAAGGAGCAGCCTGGAGCTGTCAAAG
 CTGCCCTGGCGGTACCCCGTAGTCAAGCTCCTAGGCTACAGTGAAGCCACTGACCCTACAGATGTT
 CATCGGCACTGCAGATGAAAGGAACCTGCGGCCTCATGCCTTCTATCAGGTGCACCGTATCACAGGCAAG
 ATGGTGGCCACGGCCAGCTATGAAGCCGTAGTCAAGTGGCACCAGGTTGGAGATGACTCTGCTGCCTG
 AGAACAACATGGCGCCAACATTGACTGCGCGGAATCCTGAAGCTTCGGAATTCAGACATTGAGCTTCG
 GAAGGGTGAAGGACATCGGGCGAAAAACACACGTGTACGGCTGGTGTCCGGGTACAGTGCCTCCAG
 GCGGGCGGAAGGTCGTCTCAGTACAGGCAGCATCGGTGCCATCGAGTGTCCAGCGCTCAGCCAGG
 AGCTGCCCCAGGTGGAGGCTACAGCCCAGTGCCTGCTGTGAGAGGAGGCGAGGAAGTGGTACTGAC
 TGGCTCCAACCTCCTGCCAGACTCCAAGGTGGTGTTCATTGAGAGGGTCTGATGGGAAGTGCATGG
 GAGGAGGAGGCCACAGTGAACCGACTGCAGAGCAACGAGGTGACGCTGACCCTGACTGTCCCGAGTACA
 GCAACAAGAGGGTTTCCCGCCAGTCCAGGTCTACTTTTATGTCTCCAATGGGCGGAGGAAACGCAGTCC
 TACCCAGAGTTTCAGGTTTCTGCCTGTGATCTGCAAGAGGAGCCCTACCGGACTCATCTGCGGGGT
 TTCCCTCAGCATCGGCAACCCCTTTGGCACTGACATGGACTTCTCACCACCCAGGCCCCCTACCCCT
 CCTATCCCATGAAGACCCTGCTTGCAGAACTCCTTACCTATCAGAAGGCTTCGGCTATGGCATGCCCC
 TCTGTACCCCAAGACGGGGCCCAACCTCCTACAGACCGGGCTGCGGATGTTCCCTGAGACTAGGGGT
 ACCACAGTTGTGCCAACCACCTGCAGTTTCTTCTTCCCGCCCTTCCCTAGTGACCGTATGGAG
 GCGGGGCTCCTTTCTCCCTGGGCTGCCATTCTCTCCGCGAGCCCTTTCGCGCCCTCCTTTCC
 TGCATCCCACCGCTTGAAGGCCCTTCCCTTCCAGAGTGTATGCATCCCCTACCTGCTGAGGGATAC
 AATAAGGTAGGGCCAGGCTATGGCCCTGGGAGGGGGCTCCGAGCAGGAGAAATCCAGGGTGGCTACA
 GCAGCGGCTTCGAGACAGTGTCCCTATCCAGGTATCACGCTGGAGGAAGTGAAGTGAATCATTGGCCG
 AGACCTGAGTGGCTTCCCTGCACCTCCTGGAGAAGAGCCTCCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208770 representing NM_004554
 Red=Cloning site Green=Tags(s)

MGAASCEDEEELFKLVFGEEKEAPPLGAGGLGEELDSEDAPPCCRLALGEPPPYGAAPIGIPRPPPPRPG
 MHSPPPRPAPSPGTWESQPARSVRLGGPGGGAGGAGGGRVLECPISIRITSIPTPEPPAALEDNPDWGD
 GSPRDYPPPEFGGYYREAGGQGGGAFFSPSPGSSSLSSWSFFSDASDEAALYAACDEVESELNEAASRFG
 LGSPLSPRASRPWPTEPDWLSYGPSPGGRGPEDSWLLLAPGPTPASPRPASPCGKRRYSSSGTPSSA
 SPALSRRLGSLGEEGSEPPPPPLPLARDPGSPGPFDYVGAPPAESIPQKTRRTSSEQAVALPRSEEPASC
 NGKLPLGAEESVAPPGGSRKEVAGMDYLAVPSPLAWSKARIGGHSPIFRTPALPLDWPLPSQYEQLELR
 IEVQPRAHRAHYETEGSRGAVKAAPGGHPVVKLLGYSEKPLTLQMFIGTADERNLRPHAFYQVHRITGK
 MVATASYEAVVSGTKVLEMTLLPENMAANIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHVPQ
 GGGKVVSQAASVPIECSQSAQELPQVEAYSPSACSVRGGEEELVLTGSNFLPDSKVVFIERGPDKLQW
 EEEATVNRLQSNVTLTLTVPEYSNKRVSQVQVYFVSNRRKRSPQSFRLPVICKEEPLDSSLRG
 FPSASATPFGTDMDFSPRPPYPSYPHEDPACETPYLSEFGYGMPLYPQTGPPPSPYRGLRMFPETRG
 TTGCAQPPAVSFLPRPFPSPDYGGRSSFLGLPFPSPAPFRPPPLPASPPLEGFPFSQSDVHPLPAEGY
 NKVGPYGPGEAPEQEKSRGGYSSGFRDSVPIQGITLEEVSEIIGRDLSGFPAPPGEPPA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

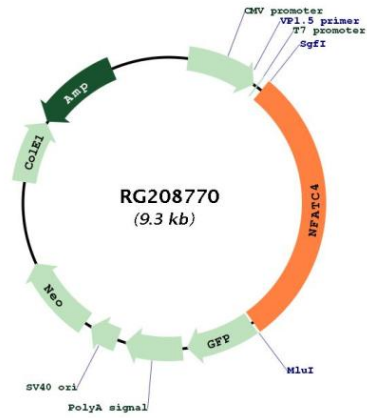
Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:	NM_004554
ORF Size:	2706 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:	<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:	NM_004554.3 , NP_004545.2
RefSeq Size:	4944 bp
RefSeq ORF:	2709 bp
Locus ID:	4776
UniProt ID:	Q14934
Cytogenetics:	14q12
Domains:	IPT
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Axon guidance, B cell receptor signaling pathway, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway
Gene Summary:	This gene encodes a member of the nuclear factor of activated T cells (NFAT) protein family. The encoded protein is part of a DNA-binding transcription complex. This complex consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor stimulation and an inducible nuclear component. NFAT proteins are activated by the calmodulin-dependent phosphatase, calcineurin. The encoded protein plays a role in the inducible expression of cytokine genes in T cells, especially in the induction of interleukin-2 and interleukin-4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Product images:



Circular map for RG208770