

Product datasheet for **TP511104**

Nfatc4 (NM_023699) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 4 (Nfatc4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211104 representing NM_023699 Red =Cloning site Green =Tags(s)

MGAASCEDEEELFKLVFGEEKEPPPLGPGGPGEELDSEDTPCCRLALGEPLPYGAAPIGIPRPPPPRPG
MHSPPPRPAPSPGTWESQPARSVRLGGPGGNAGGAGGGRVLECPISIRITSISPTDPPTSLEDTSWTWGD
GSPRDYPPPEGGFYREAGGQGGGAFFSPSPGSSSLSSWSFFSDASDEAALYAACDEVESELNEAASRFG
LSSPLSPRASPRPWTPEPWSLYGPSSGGRAPEDSWLLLSAPGPVPASPRPASPCGKRRYSSSGTPSSA
SPALSRRGSLGEEGPEPPPPPLPLVRDPSSPGPFDYVGAPPTESIPQKTRRTSSEQAVALPRSEPPSC
NGKLPSGTEDSVAAPGALRKEVAGMDYLAVPSPLAWSKARIGGHSPIFRTSALPLDWPLPSQYEQLELR
IEVQPRAHRAHYETEGSRGAVKAAPGGHPVVKLLGYSEKPLTLQMFIGTADERSLRPHAFYQVHRITGK
MVATASYEAVVSGTKVLEMTLLPENNMAANIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHVPQ
GGGKVVSVQAASVPIECSQRS AQELPQVETYSACSVRGGEELVLTGSNFLPDSKVVFIERGPDGKLQW
EEEEAVNRLQSSEVTLTLTIPEYSNKRVS RPVQVYFVSNRRKRSPTQSFKFLPVVFKEEPLPDSSLRG
FPSTSGPPFGPDVDFSPRPPYPSPHEDPAYETPYLSEFGYSTPALYPQTGPPPSYRSGLRMFPEPTEG
TTGCARLPVSFLPRPFGDQYGGQGSSFALGLPFSPAPFRPPLSSPPLDPFHPQSAIHPLPPEGYN
EVGPGYTPGEGASEQEKARGGYSSGFRDSVPIQGITLEEVSEIIGRDLSGFPARPGEEPPA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	95.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_076188
Locus ID:	73181
UniProt ID:	Q8K120
RefSeq Size:	3284
Cytogenetics:	14 C3
RefSeq ORF:	2703
Synonyms:	3110041H08Rik; AW107667; AW546455; Nfat3
Summary:	<p>Ca(2+)-regulated transcription factor that is involved in several processes, including the development and function of the immune, cardiovascular, musculoskeletal, and nervous systems. Involved in T-cell activation, stimulating the transcription of cytokine genes, including that of IL2 and IL4 (PubMed:17198697). Along with NFATC3, involved in embryonic heart development (PubMed:12750314, PubMed:17198697). Involved in mitochondrial energy metabolism required for cardiac morphogenesis and function (PubMed:12750314). Transactivates many genes involved in heart physiology. Along with GATA4, binds to and activates NPPB/BNP promoter (PubMed:9568714). Activates NPPA/ANP/ANF and MYH7/beta-MHC transcription (By similarity). Binds to and transactivates AGTR2 gene promoter (PubMed:17198697). Involved in the regulation of adult hippocampal neurogenesis. Involved in BDNF-driven pro-survival signaling in hippocampal adult-born neurons. Involved in the formation of long-term spatial memory and long-term potentiation (PubMed:22586092). In cochlear nucleus neurons, may play a role in deafferentation-induced apoptosis during a developmental critical period when auditory neurons depend on afferent input for survival (PubMed:18354019). Binds to and activates the BACE1/Beta-secretase 1 promoter, hence may regulate the proteolytic processing of the amyloid precursor protein (APP). Plays a role in adipocyte differentiation. May be involved in myoblast differentiation into myotubes (By similarity). Binds the consensus DNA sequence 5'-GGAAAAT-3' (Probable). In the presence of CREBBP, activates TNF transcription. Binds to PPARG gene promoter and regulates its activity (By similarity). Binds to PPARG and REG3G gene promoters (PubMed:17198697).</p> <p>[UniProtKB/Swiss-Prot Function]</p>