

## Recombinant Human NFATC3

**Cat. No.** NFATC3-27538TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b>   | Recombinant full length Human NFAT4 Isoform 2 with N terminal proprietary tag;<br>MW: 143.55 inclusive of tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>             | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>      | 1068 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>        | The product of this gene is a member of the nuclear factors of activated T cells 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 (TCR) stimulation and an inducible nuclear component. Other members of this family participate to form this complex also. The product of this gene plays a role in the regulation of gene expression in T cells and immature thymocytes. Several transcript variants encoding distinct isoforms have been identified for this gene. |
| <b>Molecular Weight</b>   | 143.550kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Tissue specificity</b> | Isoform 1 is predominantly expressed in thymus and is also found in peripheral blood leukocytes and kidney. Isoform 2 is predominantly expressed in skeletal muscle and is also found in thymus, kidney, testis, spleen, prostate, ovary, small intestine, hear                                                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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| <b>Purity</b>                   | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage buffer</b>           | pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Sequences of amino acids</b> | <p>MTTANCGAHDELDFKLVFGEDGAPAPPPPGSRPADLEPDD CASIYIFNVDPPPSTLT</p> <p>TPLCLPHHGLPSHSSVLSPSFQL QSHKNYEGTCEIPESKYSPLGGPKPFECPSIQIT</p> <p>SISPNC HQELDAHEDDLQINDPEREFLEPRSRDHLYLPLEPSYRES SLSPSPASSIS</p> <p>SRSWFSDASSCESLSHIYDDVDSELNEAA ARFTLGSPLTSPGGSPGGCPGEETWH</p> <p>QQYGLGHSLSPRQS PCHSPRSSVTDENWLSRPASGPSSRPTSPCGKRRHSSAE</p> <p>VCYAGSLSPHHSPVPSPGHSPRGSVTEDTWLNASVHGGSG LGPAVFPPFYCVET</p> <p>DIPLKTRKTSEDQAAILPGKLELCSD DQGSLSPARETSIDDGLGSQYPLKKDSCGDQ</p> <p>FLSVPSPFT WSKPKPGHTPIFRTSSLPLDWPLPAHFGQCELKIEVQPK THHRAHY</p> <p>ETEGSRGAVKASTGGHPVVKLLGYNEKPINLQM FIGTADRYLRPHAFYQVHRITG</p> <p>KTVATASQEIIIASTKV LEIPLLPENNMSASIDCAGILKLRNSDIELRKGETDIGRK NTR</p> <p>VRLVFRVHIPQPSGKVLSLQIASIPVECSQRSAQELP HIEKYSINSCSVNGGHEMVVT</p> <p>GSNFLPESKIIFLEKGQDG RPQWEVEGKIIREKCGAHIVLEVPPYHNPAVTAAVQV</p> <p>HF YLCNGKRKKSQSQRFTYTPVLMKQEHREEIDLSSVPSLPV PHPAQTQRPSSDS</p> <p>GCSHDSVLSGQRSLICSIPTIYASMTV SSHLPQLQCRDESVSKEQHMIPSPIVHQPF</p> <p>QVTPTPPVGS SYQPMQTNVYNGPTCLPINAASSQEFDVLFQQDATLSG LVNLG</p> <p>CQPLSSIPFHSSNSGSTGHLLAHTPHSVHTLPHLQ SMGYHCSNTGQRLSSPVAD</p> <p>QITGQPSSQLQPITYGPSHS GSATTASPAASHPLASSPLSGPPSPQLQPMPIYQSPS</p> <p>SGTA SSPSPATRMHSGQHSTQAQSTGQGGLSAPSSLICHSLCDP ASFPPDGATVS</p> <p>IKPEPEDREPNFATIGLQDITLDDDDQFIS DLEHQPSGSAEKWPNHVLSLCPAPFWRI</p> |
| <b>Sequence Similarities</b>    | Contains 1 RHD (Rel-like) domain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## GENE INFORMATION

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | NFATC3 nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3 [ Homo sapiens ]                                                                                                                                                                       |
| <b>Official Symbol</b>     | NFATC3                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | NFATC3; nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3; nuclear factor of activated T-cells, cytoplasmic 3; NFAT4; NFATX;                                                                                                                    |
| <b>Gene ID</b>             | 4775                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_004555                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_004546                                                                                                                                                                                                                                                               |
| <b>MIM</b>                 | 602698                                                                                                                                                                                                                                                                  |
| <b>Uniprot ID</b>          | Q12968                                                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 16q22                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; |
| <b>Function</b>            | DNA binding; chromatin binding; sequence-specific DNA binding transcription factor activity;                                                                                                                                                                            |

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