

Recombinant Full Length Human NF1 Protein, His tagged

Cat. No. NF1-01HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human neurofibromin (NF1) isoform 2 Protein with N-His tag was expressed in Baculovirus-Insect Cells.
Species	Human
Source	Insect Cells
ProteinLength	1-2839 aa
Description	This gene product appears to function as a negative regulator of the ras signal transduction pathway. Mutations in this gene have been linked to neurofibromatosis type 1, juvenile myelomonocytic leukemia and Watson syndrome. The mRNA for this gene is subject to RNA editing (CGA> UGA-> Arg1306Term) resulting in premature translation termination. Alternatively spliced transcript variants encoding different isoforms have also been described for this gene.
Molecular Mass	320 kDa
AASequence	MHHHHHHHHHHHHWSHPQFEKENLYFQGMAAHRPVEWVQAVVSRFDEQLPIKTG QQNTHTKVSTEHNKECLINISKYKFSLVISGLTTILKNVNNMRIFGEAAEKNLYLSQLIL DTLEKCLAGQPKDTMRLDETMVLKQLLPEICHFLHTCREGNQHAAELRNSASGVLF SLSCNNFNAVFSRISTRQLQELTVCSNVDVHDIELLQYINVDCAKLKRLLKETAFKFK ALKKVAQLAVINSLEKAFWNWVENYPDEFTKLYQIPQTDMAECAEKLFDLVDGFAES TKRKAADVWPLQIILLILCPEIIQDISKDVVDENNMNKKLFLDSLRLKALAGHGGSRQLTE SAAIACVKLCKASTYINWEDNSVIFLLVQSMVVDLKNLLFNPSKPFSGSQPADVDL

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MIDCLVSCFRISPHNNQHFKICLAQNSPSTFHVVLVNSLHRIITNSALDWWPKIDAVY
CHSVELRNMFGETLHKAVQGC GAHPAIRM APSLTFKEKVTSLKFKEKPTDLETRSYK
YLLLSMVKLIHADPKLLLCNPRKQGPETQGSTAELITGLVQLVPQSHMPEIAQEAMEA
LLVLHQLD SIDLWNP DAPVET FWEISSQMLFYICKKLTSHQMLSSTEILKWLREILICR
NKFLLKNKQADRSSCHFLFYGVGCDIPSSGNTSQMSMDHEELLRTPGASLRKGKG
NSSMDSAAGCSGTPPICRQAQTKLEVALYMLWNP DTEAVLVAMSCFRHLCEEADI
RCGVDEVSVHNLLPNYNTFMEFASVSNMMSTGRAALQKRV MALLRRIEHPTAGNTE
AWEDTHAKWEQATKLILNYPKAKMEDGQAAESLHKTIVKRRMSHVSGGGSIDLSDT
DSLQEWINMTGFLCALGGVCLQQRSNSGLATYSPPMGPVSEKSGSMISVMSSEGN
ADTPVSKFMDRLLSLMVCNHEKVGLQIRTNVKDLVGLELSPALYPMLFNKLKNTISKF
FDSQGQVLLTDTNTQFVEQTIAIMKNLLDNHTEGSSEHLGQAS IETMMLNLVRYVRV
LGNMVHAIQIKTKLCQLVEVMMARRDDL SFCQEMKFRNKMVEYLT DWVMGTSNQA
ADDDVKCLTRDL DQASMEAVVSLLAGLPLQPEEGDGVELMEAKSQLFLKYFTLFMN
LLNDCSEVEDESAQTGGRKRGMSRRLASLRHCTVLAMSNLLNANVDSGLMH SIGLG
YHKDLQTRATFMEVLTKILQQGTEFDTLAETVLADRFERLVELVTMMGDQGELPIAM
ALANVPCSQWDELARVLVTLFDSRHLLYQLLWNMFSKEVELADSMQTLFRGNSLA
SKIMTFCFKVYGATYLQKLLDPLL RIVITSSDWQHVSFEVDPTRLEPSESLEENQRNL
LQMTEKFFHAISSSSEFPPLRSVCHCLYQVVSQRFPQNSIGAVGSAMFLRFINPAI
VSPYEAGILDKKPPPRIERGLKLSKILQSIANHVLFTKEEHMRPFNDFVKSNFDAAR
RFFLDIASDCPTSDAVNHSLSFISDGNVLALHRLWNNQE KIGQYLSSNRD HKAVGR
RPFDKMATLLAYLGPPEHKPVADTHWSSLNLTSSKFEEFMTRHQVHEKEEFKALKT
LSIFYQAGTSKAGNPIFYVARRFKTGQINGDLLIYHVLLTKPYYAKPYEIVVDLTHT
GPSNRFKTDFLSKWFVFP GFAYDNVSAVYIYNCNSWVREYTKYHERLLTGLKGSK
RLVFIDCPGKLAEHIEHEQQKLPAA TLAEEDLKVFHNALKLAHKDTKVSIVKGSTAV
QVTS AERTKVLGQSVFLNDIYYASEIEEICLV DENQFTLTIANQGTPLTFMHQECEAIV
QSIHIRTRWELS QPDSIPQHTKIRPKDVP GTLLNIALNLGSSDPSLRSAAYNLLCALT
CTFNLKIEGQLLETSGLCIPANNTLFIVSISKTLAANEPH LTLEFLEECISGFSKSSIELK
HLCLEYMTPWLSNLVRFCKHNDDAKRQRV TAILDKLITMTINEKQMYPSIQAKIWGSL
GQITDLLDVVLDSFIKTSATGGLGSIKAEVMADTAVALASGNVKLVSSKVIGRMCKIID
KTCLSP TPTLEQHLMWDDIAILARYMLMLSFNNSLDVAAHLPYLFHVVTFLVATGPLS

LRASTHGLVINIIHSLCTCSQLHFSEETKQVLRSLTEFSLPKFYLLFGISKVKSAAVIAF
 RSSYRDRSFSPGSYERETFALTSLETVTALLEIMEACMRDIPTCKWLDQWTELAQR
 FAFQYNPSLQPRALVVFSGISKRVSHGQIKQIIRILSKALESCLKGPDYNSQVLIAT
 VIALTKLQPLLNKDSPLHKALFWAVAVLQLDEVNLYSAGTALLEQNLHTLDSLRFN
 DKSPEEVFMAIRNPLEWHCKQMDHFVGLNFNSNFNFALVGHLLKGYRHPSPAIVAR
 TVRILHTLLTLVKNHRNCDKFEVNTQSVAYLAALLTVSEEVRSLKHKRSLLLTDIS
 MENVPMDTYPIHHGDPSYRTLKETQPWSSPKGSEGYLAATYPTVGQTSPRARKSM
 SLDMGQPSQANTKKLLGTRKSFHLSIDTKAPKRQEMESGITPPKMRRVAETDYE
 METQRISSSQQHPHLRKVSSESNNLLDEEVLTDPKIQALLLTVLATLVKYTTDEFDQ
 RILYEYLAEASVFPKVPVHNLLDSKINTLLSLCQDPNLLNPIHGIVQSVVYHEESP
 PQYQTSYLQSFNGFLWRFAGPFSKQTQIPDYAELIVKFLDALIDTYLPGIDEETSEE
 SLLTPTSPYPPALQSQLSITANLNSNSMTSLATSQHSPGIDKENVELSPTTGHCNSG
 RTRHGSASQVQKQRSAGSFKRNSIKKIV

Purity > 85% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 1.04 mg/mL by Bradford

Storage Buffer Sterile 50mM Tris, pH 8.0, 200mM NaCl, 2mM MgCl₂, 2mM DTT

GENE INFORMATION

Gene Name [NF1 neurofibromin 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [NF1](#)

Synonyms NF1; neurofibromin 1; neurofibromin; neurofibromatosis; von Recklinghausen disease; Watson disease; neurofibromatosis-related protein NF-1; WSS; NFNS;

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VRNF; FLJ21220; DKFZp686J1293

Gene ID 4763**mRNA Refseq** NM_000267**Protein Refseq** NP_000258**MIM** 613113**UniProt ID** P21359 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA