

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 QQNTHTKVSTEHNKECLINISKYKFSLVISGLTTILKNVNNMRIFGEAAEKNYLSQLIIL DTLEKCLAGQPKDTMRLDETMMLVKQLLPEICHFLHTCREGNQHAAELRNSASGVLF SLSCNNFNAVFSRISTRLLQELTVCSVDNVDVHDIPELLQYINVDCAKLKRLLKETAFFKFK ALKKVAQLAVINSLEKAFWNWVENYPDEFKLYQIPQTDMAECAEKLFDLVDGFAES TKRKAHVWPLQIILLILCPEIIQDISKDVVDENNMNKKLFLDSLRLKALAGHGGSRQLTE SAAIACVKLCKASTYINWEDNSVIFLLVQSMVVDLKNLLFNPSKPFSSRGSQPADVDL

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MIDCLVSCFRISPHNNQHFKICLAQNSPSTFHVVLVNSLHRIITNSALDWWPKIDAVY
CHSVELRNMFGETLHKAVQGGCGAHPAIRMAPSLTFKEKVTSLKFKEKPTDLETRSYK
YLLLSMVKLIHADPKLLLCNPRKQGPETQGSTAELITGLVQLVPQSHMPEIAQEAMEA
LLVLHQLDSIDLWNPDPVETFWISSQMLFYICKKLTSHQMLSSTEILKWLREILICR
NKFLLKNKQADRSSCHFLFYGVGCDIPSSGNTSQMSMDHEELLRTPGASLRKKGK
NSSMDSAAGCSGTPPICRQAQTKLEVALYMLWNPDEAVLVAMSCFRHLCEEADI
RCGVDEVSVHNLLPNYNTFMEFASVSNMMSTGRAALQKRV MALLRRIEHPTAGNTE
AWEDTHAKWEQATKLILNYPKAKMEDGQAAESLHKTIVKRRMSHVSGGGSIDLSDT
DSLQEWINMTGFLCALGGVCLQQRSNSGLATYSPPMGPVSERKGS MISVMSSEGN
ADTPVSKFMDRLLSLMVCNHEKVGLQIRTNVKDLVGLELSPALYPMLFNKLNKNTISKF
FDSQGQVLLTDTNTQFVEQTIAIMKNLLDNHTEGSSEHLGQAS IETMMLNLVRYVRV
LGNMVHAIQIKTKLCQLVEVMMARRDDL SFCQEMKFRNKMVEYLTDWVMGTSNQA
ADDDVKCLTRDLQASMEAVVSLLAGLPLQPEEGDGVELMEAKSQLFLKYFTLFMN
LLNDCSEVEDESAQTGGRKRGMSRRLASLRHCTVLAMSNLLNANVDSGLMHSIGLG
YHKDLQTRATFMEVLTKILQQGTEFDTLAETVLADR FERLVELVTMMGDQGELPIAM
ALANVVPCSQWDELARVLVTLFDSRHLLYQLLWNMFSKEVELADSMQTLFRGNLA
SKIMTFCFKVYGATYLQKLLDPLL RIVITSSDWQHVSFEVDPTRLEPSESLEENQRNL
LQMTEKFFHAISSSSEFPPLRSVCHCLYQVVSQRFPQNSIGAVGSAMFLRFINPAI
VSPYEAGILDKKPPPRIERGLKLSKILQSIANHVLF TKEEHMRPFNDFVKS NFDAAR
RFFLDIASDCPTSDAVNHLSLFSIDGNVLALHRL LWNQEKIGQYLSSNRDHKAVGR
RPFDKMATLLAYLGPPEHKPVADTHWSSLNLTSSKFEEFMTRHQVHEKEEFKALKT
LSIFYQAGTSKAGNPIFYVARRFKTGQINGDLLIYHVLLTKPYYAKPYEIVVDLTHT
GPSNRFKTDFLSKWFVFPGFAYDNVSAVYIYNCNSWVREYTKYHERLLTGLKGSK
RLVFIDCPGKLAEHIEHEQQKLPAA TLALEEDLKVFNALKLAHKDTKVSIVGSTAV
QV TSAERTKVLGQSVFLNDIYYASEIEEICLV DENQFTLTIANQGTP LTFMHQECEAIV
QSIHIRTRWELSQPDSIPQHTKIRPKDVP GTLLNIALLNLGSSDPSLRSAAYNLLCALT
CTFNLKIEGQLETSGLCIPANNTLFIVSISKT LAANEPHLLTLEFLEECISGFSKSSIELK
HLCLEYMTPWLSNLVRFCKHNDDAKRQRV TAILDKLITMTINEKQMYPSIQAKIWGSL
GQITDLLDVVLD SFIKTSATGGLGSIKAEVMADTAVALASGNV KLVSSKVIGRMCKIID
KTCLSPTPTLEQHLMWDDIAILARYMLMLS FNNSLDVAAHLPYLFHVVTFLVATGPLS

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LRASTHGLVINIIHSLCTCSQLHFSEETKQVLRSLTEFSLPKFYLLFGISKVKSAAVIAF
 RSSYRDRSFSPGSYERETFALTSLETVTEALLEIMEACMRDIPTCKWLDQWTELAQR
 FAFQYNPSLQPRALVVFVGCISKRVSHGQIKQIIRILSKALESCLKGPDTYNSQVLIAT
 VIALTKLQPLLKDSPLHKALFWVAVAVLQLDEVNLYSAGTALLEQNLHTLDSLRFN
 DKSPEEVFMAIRNPLEWHCKQMDHFVGLNFNSNFNFALVGHLLKGYRHPSPAIVAR
 TVRILHTLLTLVNXHRNCDKFEVNTQSVAYLAALLTVSEEVRSRCCLKHRKSLLLTDIS
 MENVPMDTYPIHHGDPSYRTLKETQPWSSPKGSEGYLAATYPTVGQTSPRARKSM
 SLDMGQPSQANTKLLGTRKSFHLSIDTKAPKRQEMESGITPPKMRRVAETDYE
 METQRISSSQQHPHLRKVSVSESNVLLDEEVLTDPKIQALLLTVLATLVKYTTDEFDQ
 RILYEYLAEASVFPKVFVPHNLLDSKINTLLSLCQDPNLLNPIHGIVQSVVYHEESP
 PQYQTSYLQSFNGFLWRFAGPFSKQTQIPDYAELIVKFLDALIDTYLPGIDEETSEE
 SLLTPTSPYPPALQSQLSITANLNLNSMTSLATSQHSPIGIDKENVELSPTTGHCNSG
 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](#)

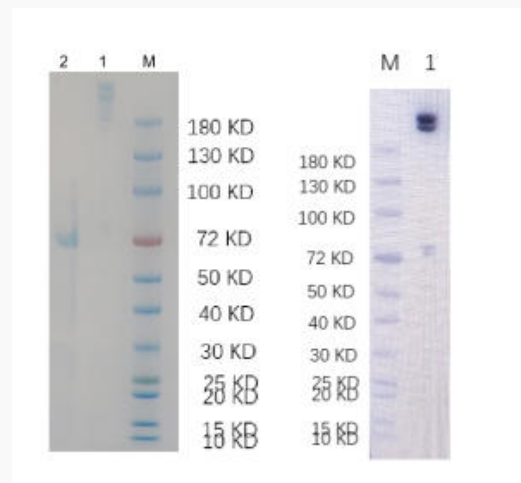
mRNA Refseq [NM_000267](#)

Protein Refseq [NP_000258](#)


MIM [613113](#)

UniProt ID [P21359](#)


SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profiles of purified NF1. 1. NF1 2. BSA

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