

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 SLSCNNFNAVFSRISTRQLQELTVCSEDNVDVHDIELLQYINVDCAKLKRLLKETAFKFK ALKKVAQLAVINSLEKAFWNWVENYPDEFTKLYQIPQTDMAECAEKLFDLVDGFAES TKRKAADVWPLQIILLILCPEIIQDISKDVVDENNMNKKLFLDSLRLKALAGHGGSRQLTE SAAIACVKLCKASTYINWEDNSVIFLLVQSMVVDLKNLLFNPSKPFSGSQPADVDL

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MIDCLVSCFRISPHNNQHFKICLAQNSPSTFHVVLVNSLHRIITNSALDWWPKIDAVY
CHSVELRNMFGETLHKAVQGC GAHPAIRM APSLTFKEKVTSLKFKEKPTDLETRSYK
YLLLSMVKLIHADPKLLLCNPRKQGPETQGSTAELITGLVQLVPQSHMPEIAQEAMEA
LLVLHQLD SIDLWNP DAPVETFW EISSQMLFYICKKLTSHQMLSSTEILKWLREILICR
NKFLLKNKQADRSSCHFLFYGVGCDIPSSGNTSQMSMDHEELLRTPGASLRKGKG
NSSMDSAAGCSGTPPICRQAQTKLEVALYMLWNP DTEAVLVAMSCFRHLCEEADI
RCGVDEVSVHNLLPNYNTFMEFASVSNMMSTGRAALQKRV MALLRRIEHPTAGNTE
AWEDTHAKWEQATKLILNYPKAKMEDGQAAESLHKTIVKRRMSHVSGGGSIDLSDT
DSLQEWINMTGFLCALGGVCLQQRSNSGLATYSPPMGPVSEKSGSMISVMSSEGN
ADTPVSKFMDRLLSLMVCNHEKVGLQIRTNVKDLVGLLESPALYPMLFNKLKNTISKF
FDSQGQVLLTD TNTQFVEQTIAIMKNLLDNHTEGSSEHLGQAS IETMMLNLVRYVRV
LGNMVHAIQIKTKLCQLVEVMMARRDDL SFCQEMKFRNKMVEYLT DWVMGTSNQA
ADDDVKCLTRDL DQASMEAVVSLLAGLPLQPEEGDGVELMEAKSQLFLKYFTLFMN
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SKIMTFCFKVYGATYLQKLLDPLL RIVITSSDWQHVSFEVDPTRLEPSESLEENQRNL
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RFFLDIASDCPTSDAVNHSLSFISDGNVLALHRLWNNQE KIGQYLSSNRD HKAVGR
RPFDKMATLLAYLGPPEHKPVADTHWSSLNLTSSKFEEFMTRHQVHEKEEFKALKT
LSIFYQAGTSKAGNPIFYVARRFKTGQINGDLLIYHVLLTKPYYAKPYEIVVDLTHT
GPSNRFKTDFLSKWFVFP GFAYDNVSAVYIYNCNSWVREYTKYHERLLTGLKGSK
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QVTS AERTKVLGQSVFLNDIYYASEIEEICLV DENQFTLTIANQGTPLTFMHQECEAIV
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CTFNLKIEGQLLETSGLCIPANNTLFIVSISKTLAANEPH LTLEFLEECISGFSKSSIELK
HLCLEYMTPWLSNLVRFC KHNDDAKRQRV TAILDKLITMTINEKQMYPSIQAKIWGSL
GQITDLLDVVLDSFIKTSATGGLGSIKAEVMADTAVALASGNVKLVSSKVIGRMCKIID
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LRASTHGLVINIIHSLCTCSQLHFSEETKQVLRSLTEFSLPKFYLLFGISKVKSAAVIAF
 RSSYRDRSFSPGSYERETFALTSLETVTALLEIMEACMRDIPTCKWLDQWTELAQR
 FAFQYNPSLQPRALVVFSGISKRVSHGQIKQIIRILSKALESCLKGPDYNSQVLIEAT
 VIALTKLQPLLNKDSPLHKALFWAVAVLQLDEVNLYSAGTALLEQNLHTLDSLRFN
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 TVRILHTLLTLVKNHRNCDKFEVNTQSVAYLAALLTVSEEVRSLKHKRKSLLTLDIS
 MENVPMDTYPIHHGDPSTYRTLKETQPWSSPKGSEGYLAATYPTVGQTSRARKSM
 SLDMGQPSQANTKKLLGTRKSFHLSIDTKAPKRQEMESGITPPKMRRVAETDYE
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 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

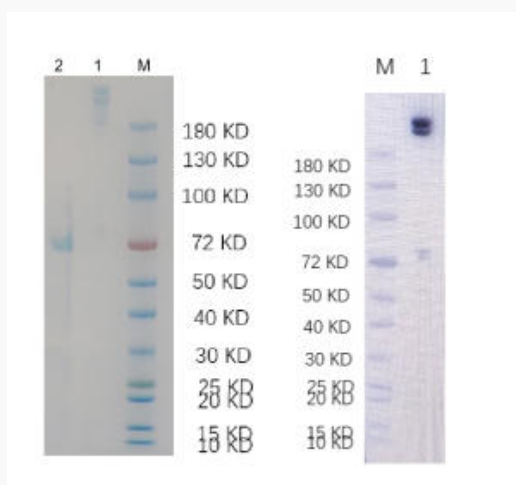
mRNA Refseq NM_000267

Protein Refseq NP_000258

MIM 613113

UniProt ID P21359

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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