

Recombinant Full Length Mutant Human neurofibromin(NF1) isoform 2, c.2709G> A, His tagged

Cat. No. NF1-02HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Mutant Human neurofibromin(NF1) isoform 2, c.2709G> A with His tag was expressed in 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.

AASequence

MHHHHHHHHHHHWSHPQFEKENLYFQGMAAHRPVVWQAVVSRFDEQLPIKTG
 QQNTHTKVSTEHNKECLINISKYKFSLVISGLTTILKNVNNMRIFGEEAAEKNYLSQLIIL
 DTLEKCLAGQPKDTMRLDETMLVKQLLPEICHFLHTCREGNQHAAELRNSASGVLF
 SLSCNNFNVAVFSRISTRQLQELTVCSVDNVDVHDIELLQYINVDCAKLRLLKETAFFKFK
 ALKKVAQLAVINSLEKAFWNWVENYPDEFTKLYQIPQTDMAECAEKLFDLVDGFAES
 TKRKAHVWPLQIILLILCPEIIQDISKDVVDENNMNKKLFLDSLRLKALAGHGGSRQLTE
 SAAIACVKLCKASTYINWEDNSVIFLLVQSMVVDLKNLLFNPSKPFSGSQPADVDL

 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



MIDCLVSCFRISPHNNQHFKICLAQNSPSTFHVVLVNSLHRIITNSALDWWPKIDAVY
CHSVELRNMFGETLHKAVQGGCAHPAIRMASPLTFKEKVTSLKFKEKPTDLETRSYK
YLLLSMVKLIHADPKLLLCNPRKQGPETQGSTAELITGLVQLVLPQSHMPEIAQEAMEA
LLVLHQLDSIDLWNPDPVETFWISSQMLFYICKKLTSHQMLSSTEILKWLREILICR
NKFLLKNKQADRSSCHFLLFYGVGCDIPSSGNTSQMSMDHEELLRTPGASLRKKGK
NSSMDSAAGCSGTPPICRQAQTKLEVALYMLWNPDEAVLVAMSCFRHLCEEADI
RCGVDEVSVHNLLPNYNTFMEFASVSNMMSTGRAALQKRV MALLRRIEHPTAGNTE
AWEDTHAKWEQATKILNYPKAKMEDGQAAESLHKTIVKRRMSHVSGGGSIDLSDT
DSLQEWINMTGFLCALGGVCLQQRSNSGLATYSPPMGPVSEKKGSMISVMSSEGN
ADTPVSKFMDRLLSLMVLLDTNTQFVEQTIAMKNLLDNHTEGSSEHLGQASIETM
MLNLVRYVRVLGNMVHAIQIKTKLCQLVEVMMARRDDL SFCQEMKFRNKMVEYLT
WVMGTSNQAADDDVKCLTRDLQASMEAVV SLLAGLPLQPEEGDGVELMEAKSQL
FLKYFTLFMNLNDCSEVEDESAQTGGRKRGMSRRLASLRHCTVLAMSNLLNANVD
SGLMHSIGLGYHKDLQTRATFMEVLTKILQQGTEFDTLAETVLADRFERLVELVTMM
GDQGELPIAMALANVPCSQWDELARVLVTLFDSRHLLYQLLWNMFSKEVELADSM
QTLFRGNLASKIMTFCFKVYGATYLQKLLDPLL RIVITSSDWQHVSFEVDPTRLEPS
ESLEENQRNLLQMTEKFFHAISSSSEFPPQLRSVCHCLYQVVSQRFPQNSIGAVGS
AMFLRFINPAIVSPYEAGILDKKPPPRIERGLKLM SKILQSIANHVLF TKEEHMRPFND
FVKSNFDAARRFFLDIASDCPTSDAVNHSLSFISDGNVLALHRLWNNQE KIGQYLSS
NRDHKAVGRRPFDKMATLLAYLGPPEHKPVADTHWSSLNLTSSKFEEFMTRHQVH
EKEEFKALKTLSIFYQAGTSKAGNPIFYVARRFKTGQINGDLLIYHVLLTLKPY YAKP
YEIVVDLHTGPSNRFKTDFLSKWFVFPGFAYDNVSAVYIYNCNSWVREYTKYHER
LLTGLKGSKRLVFIDCPGKLAEHIEHEQQKLPAA TLALEEDLKVFHNALKLAHKDTKV
SIKVGSTAVQV TSAERTKVLGQSVFLNDIY YASEIEEICLV DENQFTLTIANQGTPLTF
MHQECEAIVQSIIHIRTRWELSQPDSIPQHTKIRPKDVPGTLLNIALNLGSSDPSLR
AAYNLLCALTCTFNLKIEGQLETSGLCIPANNTLFIVSISKTLAANEPH LTLEFLEECIS
GFSKSSIELKHLCLEYMPWLSNLVRFCKHNDDAKRQRV TAILDKLITMTINEKQMYP
SIQAKIWGSLGQITDLLDVVLD SFIKTSATGGLGSIKAEVMADTAVALASGNV KLVSSK
VIGRMCKIIDKTCLSPTPTLEQHLMWDDI AILARYMLMLSFNNSLDVA AHLPLYLHVVT
FLVATGPLSLRASTHGLVINIIHSLCTCSQLHFSEETKQVLR LSLTEFSLPKFYLLFGIS

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KVKSAAVIAFRSSYRDRSFSPGSEYERETFALTSLETVTEALLEIMEACMRDIPTCKWL
 DQWTELAQRFAFQYNPSLQPRALVVFVGCISKRVSHGQIKQIIRILSKALESCLKGPDT
 YNSQVLIEMATVIALTKLQPLLKDSPLHKALFWVAVAVLQLDEVNLYSAGTALLEQNL
 HTLDSLRFNDKSPPEVFMAIRNPLEWHCKQMDHFVGLNFNSNFNFALVGHLLKGY
 RHPSPAIVARTVRILHTLLTLVKNHRNCDKFEVNTQSVAYLAALLTVSEEVRSRCSLK
 HRKSLLLTDISMENVPMDTYPIHHGDPYSYRTLKETQPWSSPKGSEGYLAATYPTVG
 QTSPRARKSMSLDMGQPSQANTKLLGTRKSFHLSIDTKAPKRQEMESGITPPK
 MRRVAETDYEMETQRISSSQQHPHLRKVSVSESNVLLDEEVLTDPKIQALLLTVLATL
 VKYTTDEFDQRILYEYLAEASVFPKVFPVVHLLDSKINTLLSLCQDPNLLNPIHGIV
 QSVVYHEESPPQYQTSYLQSFGLWRFAGPFSKQTQIPDYAELIVKFLDALIDTYL
 PGIDEETSEESLLTPTSPYPPALQSQLSITANLNLNSMSTSLATSQHSPGIDKENVEL
 SPTTGHCNSGRTRHGSASQVQKQRSAGSFKRNSIKKIV

Molecular Mass	320 kDa
Purity	> 60% 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.
Storage Buffer	Sterile 50mM Tris, pH8.0, 200mM NaCl, 0.05% SKL, 2mM DTT
Concentration	2 mg/mL by Bradford

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; VRNF; FLJ21220; DKFZp686J1293;

Gene ID 4763

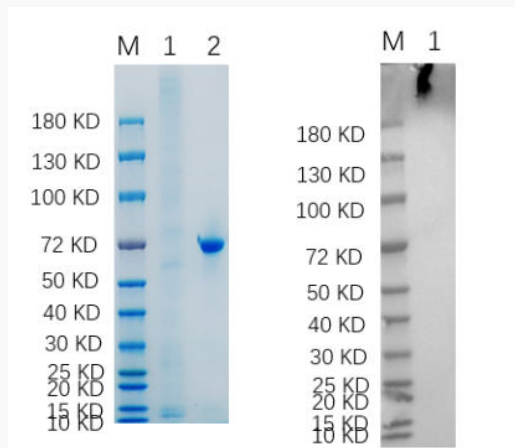
mRNA Refseq NM_000267

Protein Refseq NP_000258


MIM 613113

UniProt ID P21359


SDS-PAGE



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

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