

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Mutant Human neurofibromin(NF1) isoform 2, c.2709G> A with His tag was expressed in Insect Cells.                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 1-2839 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | 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. |
| <b>AASequence</b>       | MHHHHHHHHHHHWSHPQFEKENLYFQGMAAHRPVEWVQAVVSRFDEQLPIKTG<br>QQNTHTKVSTEHNKECLINISKYKFSLVISGLTTILKNVNNMRIFGEAAEKNLYLSQLIIL<br>DTLEKCLAGQPKDTMRLDETMLVKQLLPEICHFLHTCREGNQHAAELRNSASGVLF<br>SLSCNNFNNAVFSRISTRQLQELTVCSEDNVDVHDIELLQYINVDCAKLRLLKETAFKFK<br>ALKKVAQLAVINSLEKAFWNWVENYPDEFTKLYQIPQTDMAECAEKLFDLVDGFAES<br>TKRKAHVWPLQIILLILCPEIIQDISKDVVDENNMMNKKLFLDSLRLKALAGHGGSRQLTE<br>SAAIACVKLCKASTYINWEDNSVIFLLVQSMVVDLKNLLFNPSKPFSGSQPADVDL                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MIDCLVSCFRISPHNNQHFKICLAQNSPSTFHVVLVNSLHRIITNSALDWWPKIDAVY  
CHSVELRNMFGETLHKAVQGC GAHPAIRM APSLT FKEKVTSLKFKEKPTDLETRSYK  
YLLLSMVKLIHADPKLLLCNPRKQGPETQGSTAELITGLVQLVPQSHMPEIAQEAMEA  
LLVLHQLD SIDLWNP DAPVETFW EISSQMLFYICKKLTSHQMLSSTEILKWLREILICR  
NKFLLKNKQADRSSCHFLFYGVGCDIPSSGNTSQMSMDHEELLRTPGASLRKGKG  
NSSMDSAAGCSGTPPICRQAQTKLEVALYMLWNP DTEAVLVAMSCFRHLCEEADI  
RCGVDEVSVHNLLPNYNTFMEFASVSNMMSTGRAALQKRV MALLRRIEHPTAGNTE  
AWEDTHAKWEQATKLILNYPKAKMEDGQAAESLHKTIVKRRMSHVSGGGSIDLSDT  
DSLQEWINMTGFLCALGGVCLQQRSNSGLATYSPPMGPVSEKSGSMISVMSSEGN  
ADTPVSKFMDRLLSLMVLLTDTNTQFVEQTIAIMKNLLDNHTEGSSEHLGQASIETM  
MLNLVRYVRVLGNMVHAIQIKTKLCQLVEVMMARRDDL SFCQEMKFRNKMVEYLT D  
WVMGTSNQ AADDDVKCLTRDLDQASMEAVVSLLAGLPLQPEEGDGVELMEAKSQL  
FLKYFTLFMNL LNDCSEVEDESAQTGGRKRGMSRRLASLRHCTVLAMSNLLNANVD  
SGLMH SIGLGYHKDLQTRATFMEVLT KILQQGTEFDTLAETVLADRFERLVELVTMM  
GDQGELPIAMALANV VPCSQWDELARVLVTLFDSRHLLYQLLWNMF SKEVELADSM  
QTLFRGNSLASKIMTFCFKVYGATYLQKLLDPLL RIVITSSDWQHVSFEVDPT RLEPS  
ESLEENQRNLLQMTEKFFHAISSSSEFPPLRSVCHCLYQVVSQRFPQNSIGAVGS  
AMFLRFINPAIVSPYEAGILDKKPPPRIERGLKLM SKILQSIANHVLFTKEEHMRPFND  
FVKSNFDAARRFFLDIASDCPTSDAVNHSLSFISDGNVLALHRLWNNQE KIGQYLSS  
NRDHKAVGRRPFDKMATLLAYLGPPEHKPVADTHWSSLNLTSSKFEEFMTRHQVH  
EKEEFKALKTLSIFYQAGTSKAGNPIFYVARRFKTGQINGDLLIYHVLLTLKPY YAKP  
YEIVVDLTHTGPSNRFKTDFLSKWFVFPGFAYDNVSAVYIYNCNSWVREYTKYHER  
LLTGLKGSKRLVFIDCPGKLAEHIEHEQQKLPAATLAEEDLKVFHNALKLAHKDTKV  
SIKVGSTAVQV TSAERTKVLGQSVFLNDIYYASEIEEICLV DENQFTLTIANQGTPLTF  
MHQECEAIVQSIIHIRTRWELS QPDSIPQHTKIRPKDVPGTLLNIALNLGSSDPSLR S  
AAYNLLCALTCTFNLKIEGQLLETSGLCIPANNTLFIVSISKTLAANEPH LTLEFLEECIS  
GFSKSSIELKHLCL EYMPWLSNLVRFC KHND DAKRQ RVTAILDKLITMTINEKQMYP  
SIQAKIWGSLGQITDLLDVLD SFIKTSATGGLGSIKAEVMADTAVALASGNVKLVSSK  
VIGRMCKIIDKTCLSP TPTLEQHLMWDDIAILARYMLMLSFNNSLDVAAHLPYLFHVVT  
FLVATGPLSLRASTHGLVINIIHSLCTCSQLHFSEETKQVLRSLTEFSLPKFYLLFGIS

KVKSAAVIAFRSSYRDRSFSPGSYERETFALTSLETVTEALLEIMEACMRDIPTCKWL  
 DQWTELAQRFAFQYNPSLQPRALVVFVGCISKRVSHGQIKQIIRILSKALESCLKGPDT  
 YNSQVLIEATVIALTKLQPLLNKDSPLHKALFWAVAVLQLDEVNLYSAGTALLEQNL  
 HTLDSLRIFNDKSPEEVFMAIRNPLEWHCKQMDHFVGLNFNSNFNFALVGHLLKGY  
 RHPSPAIVARTVRILHTLLTLVNKHRNCDKFEVNTQSVAYLAALLTVSEEVRSRCCLK  
 HRKSLLLTDISMENVPMDTYPIHHGDPSYRTLKETQPWSSPKGSEGYLAATYPTVG  
 QTSPRARKSMSLDMGQPSQANTKKLLGTRKSFHLSIDTKAPKRQEMESGITPPK  
 MRRVAETDYEMETQRISSSQQHPHLRKVSSESNVLLDEEVLTDPKIQALLTLVATL  
 VKYTTDEFDQRILYEYLAEASVFPKVFPVHNLLDSKINTLLSLCQDPNLLNPIHGIV  
 QSVVYHEESPPQYQTSYLQSFNGFLWRFAGPFSKQTQIPDYAELIVKFLDALIDTYL  
 PGIDEETSEESLLTPTSPYPPALQSQLSITANLNSNSMTSLATSQHSPGIDKENVEL  
 SPTTGHHCNSGRTRHGSASQVQKQRSAGSFKRNSIKKIV

**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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

disease; Watson disease; neurofibromatosis-related protein NF-1; WSS; NFNS; VRNF; FLJ21220; DKFZp686J1293;

**Gene ID** 4763

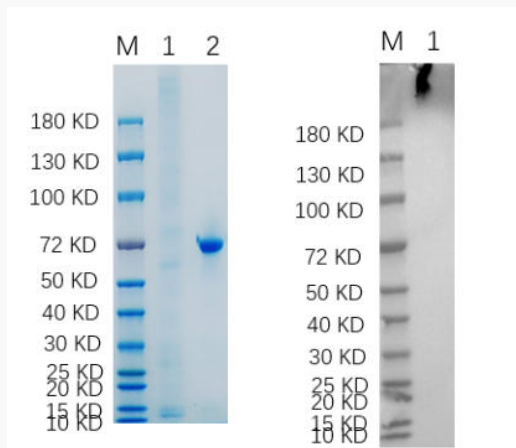
**mRNA Refseq** NM\_000267

**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

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA