

Product datasheet for **RG220425**

Neurofibromin (NF1) (NM_001042492) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurofibromin (NF1) (NM_001042492) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Neurofibromin
Synonyms:	NFNS; VRNF; WSS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220425 representing NM_001042492 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCACAGGCCGGTGGAAATGGGTCCAGGCCGTGGTCAGCCGCTTCGACGAGCAGCTTCCAATAA
AAACAGGACAGCAGAACACACATACCAAAGTCAGTACTGAGCACAACAAGGAATGTCTAATCAATATTTT
CAAATACAAGTTTTCTTTGGTTATAAGCGGCTCACTACTATTTAAAGAATGTTAACAATATGAGAATA
TTTGGAGAAGCTGCTGAAAAAATTTATATCTCTCTCAGTTGATTATATTGGATACACTGAAAAATGTC
TTGCTGGCAACCAAAGGACACAATGAGATTAGATGAAACGATGCTGGTCAAACAGTTGCTGCCAGAAAT
CTGCCATTTTCTCACACCTGTCGTGAAGGAAACCAGCATGCAGCTGAACTTCGGAATTCGCTCTGGG
GTTTTATTTTCTCTCAGCTGCAACAACCTCAATGCAGTCTTTAGTCGCATTTCTACCAGGTTACAGGAAT
TAACTGTTTGTTCAGAAGACAATGTTGATGTTTCATGATATAGAATTGTTACAGTATATCAATGTGGATTG
TGCAAAATTAACGACTCCTGAAGGAAACAGCATTAAATTTAAAGCCCTAAAGAAGGTTGCGCAGTTA
GCAGTTATAAATAGCCTGGAAAAGGCATTTTGGAACTGGGTAGAAAATTATCCAGATGAATTTACAAAAC
TATACCAGATCCCACAGACTGATATGGCTGAATGTGCAGAAAAGCTATTTGACTTGGTGGATGGTTTTGC
TGAAAGCACCACAAACGTAAGCAGCAGTTTGGCCACTACAAATCATTCTCCTTATCTGTGCCAGAAATA
ATCCAGGATATATCCAAGACGTGGTTGATGAAAACAACATGAATAAGAAGTTATTTCTGGACAGTCTAC
GAAAAGCTCTTGCTGGCCATGGAGGAAGTAGGCAGCTGACAGAAAAGTGCTGCAATTCGCTGTGCAAACT
GTGTAAGCAAGTACTTACATCAATTGGGAAGATAAECTCTGTCTTTTCTACTTGTTCAGTCCATGGTG
GTTGATCTTAAGAACCTGCTTTTTAATCCAAGTAAGCCATTCTCAAGAGGCAGTCAGCCTGCAGATGTGG
ATCTAATGATTGACTGCCTTGTCTTCTGCTTTCGTATAAGCCCTCACAACAACCAACTTTAAGATCTG
CCTGGCTCAGAATTCACCTTCTACATTTCACTATGTGCTGGTAAATTCCTCCATCGAATCATACCAAT
TCCGATTGGATTGGTGGCCTAAGATTGATGCTGTGATTGTCACTCGGTTGAACTTCGAAATATGTTTG
GTGAAACACTTCATAAAGCAGTGAAGGTTGTGGAGCACACCCAGCAATACGAATGGCACCGAGTCTTAC
ATTTAAAGAAAAAGTAACAAGCCTTAAATTTAAAGAAAAACCTACAGACCTGGAGACAAGAAGCTATAAG



TATCTTCTCTGTCCATGGTGAACATAATTCATGCAGATCCAAAGCTCTTGCTTTGTAATCCAAGAAAAAC
 AGGGGCCCGAAACCCAAGGCAGTACAGCAGAATTAATTACAGGGCTCGTCCAACCTGGTCCCTCAGTCACA
 CATGCCAGAGATTGCTCAGGAAGCAATGGAGGCTCTGCTGGTTCTTATCAGTTAGATAGCATTGATTTG
 TGGAACTCTGATGCTCCTGTAGAAAATTTTGGGAGATTAGTCCAAAATGCTTTTTTACATCTGCAAGA
 AATTAAGTAGTCATCAATGCTTAGTAGCACAGAAATTCGAAGTGGTTGCGGAAATATTGATCTGCAG
 GAATAAATTTCTCTTAAAAATAAGGCAGATAGAAGTTCCTGTCACTTTCTCTTTTTACGGGGTAGGA
 GTGATATTCCTTAGTGGAAATACCAGTCAAATGTCATGGATCATGAAGAATTAAGTACTAGTACTCCTG
 GAGCCTCTCTCCGGAAGGAAAAAGGAACTCCTCTATGGATAGTGCAGCAGGATGCAGCGGAACCCCCC
 GATTTGCCGACAAGCCAGACAAAATAAGTGGCCCTGTACATGTTTTCTGTGGAACCCGACTGAA
 GCTGTTCTGGTGGCATGCTCTGTTCCGCCACCTCTGTGAGGAAGCAGATATCCGGTGTGGGGTGGATG
 AAGTGTGAGTGCATAACCTCTTGCCCAACTATAACACATTCATGGAGTTTGCCTCTGTGCAATATGAT
 GTCAACAGGAAGAGCAGCACTTCAGAAAAGAGTGTGGCACTGCTGAGGCGCATTGAGCATCCACTGCA
 GGAACACTGAGGCTTGGGAAGATACACATGCAAAATGGGAACAAGCAACAAAGCTAATCCTTAACATC
 CAAAAGCCAAAATGGAAGATGGCCAGGCTGCTGAAAGCCTTACAAAGACCATTGTTAAGAGGCGAATGTC
 CCATGTGAGTGGAGGAGGATCCATAGATTTGTCTGACACAGACTCCCTACAGGAATGGATCAACATGACT
 GGCTTCTTTGTGCCCTTGGGGAGTGTGCCTCCAGCAGAGAAGCAATTCGGCCTGGCAACCTATAGCC
 CACCCATGGGTCCAGTCAAGTGAACGTAAGGGTTCTATGATTTTCAAGTGTGTAACCATGAGAAAGTGGGACTT
 TACACCTGTGAGCAATTTATGGATCGGCTGTTGTCTTAATGGTGTGTAACCATGAGAAAGTGGGACTT
 CAAATACGGACCAATGTTAAGGATCTGGTGGGTCTAGAATTGAGTCTGCTGTATCCAATGCTATTTA
 ACAAAATGAAGAATACCATCAGCAAGTTTTTGGACTCCCAAGGACAGGTTTTATTGACTGATACCAATAC
 TCAATTTGTAGAACAACCATAGCTATAATGAAGAAGTGTGCTAGATAATCATACTGAAGGCGACTGTAA
 CATCTAGGGCAAGCTAGCATTGAAACAATGATGTTAAATCTGGTCAGGTATGTTCTGTGCTTGGGAATA
 TGGTCCATGCAATTCAAAATAAAACGAACTGTGTCATTAAGTGAAGTAAATGATGGCAAGGAGAGATGA
 CCTCTCATTTTGGCAAGAGATGAAATTTAGGAATAAGATGGTAGAATACTGACAGACTGGGTTATGGGA
 ACATCAAACCAAGCAGCAGATGATGATGTAATGTCTTACAAGAGATTTGGACCAGGCAAGCATGGAAG
 CAGTAGTTTCACTTCTAGCTGGTCTCCCTCTGCAGCCTGAAGAAGGAGATGGTGTGGAATTGATGGAAGC
 CAAATCACAGTTATTTCTAAATACTTCACATTATTTATGAACCTTTTGAATGACTGCAGTGAAGTTGAA
 GATGAAAGTGGCAACAGGTGGCAGGAAACGTGGCATGTCTCGGAGGCTGGCATCACTGAGGCACTGTA
 CGGTCCTTGAATGTCAAATTTACTCAATGCCAACGTAGACAGTGGTCTCATGCACTCCATAGGCTTAGG
 TTACCACAAGGATCTCCAGACAAGAGCTACATTTATGGAAGTCTGACAAAAATCCTTCAACAAGGCACA
 GAATTTGACACACTTGCAGAAACAGTATTGGCTGATCGGTTTGAAGATTGGTGGAACTGGTCACAATGA
 TGGGTGATCAAGGAGAATCCCTATAGCGATGGCTCTGGCAATGTGGTTCTTGTCTCAGTGGGATGA
 ACTAGCTCGAGTTCTGGTACTCTGTTGATTCTCGGCATTTACTCTACCAACTGCTCTGGAACATGTTT
 TCTAAAGAAGTAGAATTGGCAGACTCCATGCAGACTCTCTCCGAGGCAACAGCTTGGCCAGTAAAAATA
 TGACATTTCTGTTCAAGGTATATGGTGCTACCTATCTACAAAACTCCTGGATCCTTTATTACGAATTGT
 GATCACATCCTCTGATTGGCAACATGTTAGCTTTGAAGTGGATCCTACCAGGTTAGAACCATCAGAGAGC
 CTTGAGGAAAACAGCGGAACCTCCTCAGATGACTGAAAAGTCTTCCATGCCATCATCAGTTCCTCCT
 CAGAATCCCCCTCACTTCAAGTGTGTGCCACTGTTTATACCAGGCAACTGGCACTCCCTACTGAA
 TAAAGTACAGTAAAAGAAAAAAGGAAAAACAAAAATCAGTGGTTAGCCAGCGTTTTCCCTCAGAACAGC
 ATCGGTGCAGTAGGAAGTGCCATGTTCTCAGATTTATCAATCCTGCCATTGTCTACCCTATGAAGCAG
 GGATTTTAGATAAAAAGCCACCCTAGAATCGAAAGGGCTTGAAGTTAATGTCAAAGTACTTACAGAG
 TATTGCCAATCATGTTCTCTTCAAAAAGAAGAACATATGCGGCCTTTCAATGATTTTGTGAAAAGCAAC
 TTTGATGCAGCACGCAGGTTTTTCTTGTATATAGCATCTGATTGTCTACAAGTGTGAGTAAATCATA
 GTCTTTCTTTCATAAGTACGGCAATGTGCTTGTCTTACATCGTCTACTCTGGAACAATCAGGAGAAAAAT
 TGGGCAGTATCTTCCAGCAACAGGATCATAAAGCTGTTGGAAGACGACCTTTTGTATAAGATGGCAACA
 CTTCTTGCATACCTGGTCTCCAGAGCACAACCTGTGGCAGATACACACTGGTCCAGCCTTAACCTTA
 CCAGTTCAAAGTTTGAAGATTTATGACTAGGCATCAGGTACATGAAAAAGAAGAATTCAAGGCTTTGAA
 AACGTTAAGTATTTTCTACCAAGCTGGGACTTCCAAGCTGGGAATCCTATTTTTTATTATGTTGCACGG
 AGGTTCAAACCTGGTCAAATCAATGGTGAATTTGCTGATATACCATGTCTTACTGACTTTAAAGCCATATT
 ATGCAAAGCCATATGAAATTTGATGAGCTTACCCATACCGGGCCTAGCAATCGCTTTAAACAGACTT
 TCTCTAAGTGGTTTGTGTTTTCTGGCTTTGCTTACGACAACGCTCCGCAGTCTATATCTATAAC
 TGTAACCTCTGGGTCAAGGAGTACACCAAGTATCATGAGCGGCTGCTGACTGGCCTCAAAGGTAGCAAAA

```

GGCTTGTTTTATAGACTGTCCTGGGAACTGGCTGAGCACATAGAGCATGAACAACAGAACTACCTGC
TGCCACCTTGCTTTAGAAGAGGACCTGAAGGTATTCCACAATGCCTCAAGCTAGCTCACAAAGACACC
AAAGTTTCTATTAAGTTGGTTCTACTGCTGTCCAAGTAACTTCAGCAGAGCGAACAAAAGTCTAGGGC
AATCAGTCTTTCTAAATGACATTTATTATGCTTCGGAAATTGAAGAAATCTGCCTAGTAGATGAGAACCA
GTTACCTTAACCATGCAAACAGGGCAGCCGCTCACCTTCATGCACCAGGAGTGTGAAGCCATTGTC
CAGTCTATCATTATATCCGGACCCGCTGGGAAGTGTACAGCCCGACTCTATCCCCAACACACCAAGA
TTCGGCCAAAAGATGCCCTGGGACACTGCTCAATATCGCATTACTTAATTTAGGCAGTTCTGACCCGAG
TTTACGGTCAGCTGCCTATAATCTTCTGTGTGCCTTAACTTGACCTTTAATTTAAAAATCGAGGGCCAG
TTACTAGAGACATCAGGTTTATGTATCCCTGCCAACACACCCTCTTTATTGTCTCTATTAGTAAGACAC
TGGCAGCCAATGAGCCACACCTCACGTTAGAATTTTGGAAAGAGTGTATTTCTGGATTTAGCAAATCTAG
TATTGAATTGAAACACCTTTGTTTGAATACATGACTCCATGGCTGTCAAATCTAGTTCTGTTTTGCAAG
CATAATGATGATGCCAAACGACAAAGAGTTACTGCTATTCTTGACAAGCTGATAACAATGACCATCAATG
AAAAACAGATGTACCCATCTATTCAAGCAAAAATATGGGAAGCCTTGGGCAGATTACAGATCTGCTTGA
TGTTGACTAGACAGTTTCATCAAACAGTGAACAGGTGGCTTGGGATCAATAAAAGCTGAGGTGATG
GCAGATACTGCTGTAGCTTTGGCTTCTGGAAATGTGAAATGGTTTCAAGCAAGGTTATTGGAAGGATGT
GCAAAAATAATTGACAAGACATGCTTATCTCCAACCTCTACTTTAGAACAACATCTTATGTGGGATGATAT
TGCTATTTTAGCACGCTACATGCTGATGCTGTCCTTCAACAATCCCTTGATGTGGCAGCTCATCTTCCC
TACCTCTTCCACGTTGTTACTTTCTTAGTAGCCACAGGTCGCTCTCCCTTAGAGCTTCCACACATGGAC
TGGTCATTAATATCATTCACTCTCTGTGTACTTGTTCACAGCTTCATTTTAGTGAAGAGACCAAGCAAGT
TTTGAGACTCAGTCTGACAGAGTTCTCATTACCCAAATTTACTTGCTGTTTGGCATTAGCAAAGTCAAG
TCAGCTGCTGTCAATGCCTTCCGTTCCAGTTACCGGGACAGGTCATTCTCTCCTGGCTCCTATGAGAGAG
AGACTTTTGCTTTGACATCCTTGGAAACAGTACAGAAGCTTTGTTGGAGATCATGGAGGCAATGCATGAG
AGATATTTCAACGTGCAAGTGGCTGGACCAGTGGACAGAAGTCAAGATTTGCATTTCAATATAAT
CCATCCCTGCAACCAAGAGCTCTTGTGTCTTTGGGTGATTAGCAACAGAGTGTCTATGGGCAGATAA
AGCAGATAATCCGTATTCTTAGCAAGGCACTTGAGAGTTGCTTAAAAGGACCTGACACTTACAACAGTCA
AGTTCTGATAGAAGCTACAGTAATAGCACTAACCAAAATACAGCCACTTCTTAATAAGGACTCGCCTCTG
CACAAAGCCCTCTTTGGGTAGCTGTGGCTGTGCTGCAGCTTGTAGAGTCAACTGTATTACAGCAGGTA
CCGCACCTCTTGAACAAAACCTGCATACTTTAGATAGTCTCCGTATATTCAATGACAAGAGTCCAGAGGA
AGTATTTATGGCAATCCGGAATCCTCTGGAGTGGCACTGCAAGCAAAATGGATCATTTTGTGGACTCAAT
TTCAACTCTAACTTTAACTTTGCATTGGTTGGACACCTTTTAAAAGGGTACAGGCATCCTCACCTGCTA
TTGTTGCAAGAACAGTCAAGATTTTACATACACTACTAATCTGTTTAAACAAACAGAAATTTGTGACAA
ATTTGAAGTGAATACACAGAGCGTGGCCTACTTAGCAGCTTTACTTACAGTGTCTGAAGAAGTTCGAAGT
CGCTGCAGCCTAAAACATAGAAAGTCACTTCTTCTTACTGATATTTCAATGGAAAATGTTCTATGGATA
CATATCCCATTATCATGGTGACCCTTCTATAGGACACTAAAGGAGACTCAGCCATGGTCTCTCCCAA
AGGTTCTGAAGGATACCTTGACGCCACCTATCCAATGTCCGCCAGACCAGTCCCGAGCCAGGAAATCC
ATGAGCCTGGACATGGGGCAACCTTCTCAGGCCAACACTAAGAAGTTGCTTGAACAAGGAAAAGTTTTG
ATCACTTGATATCAGACACAAAGGCTCCTAAAAGGCAAGAAATGGAATCAGGGATCACAACACCCCCCAA
AATGAGGAGAGTAGCAGAAACTGATTATGAAATGGAAACTCAGAGGATTTCCCTATCACAACAGCACCCA
CATTACGTAAGTTTTCAGTGTCTGAATCAAATGTTCTCTTGGATGAAGAAGTACTTACTGATCCGAAGA
TCCAGGCCTGCTTCTTACTGTTCTAGCTACACTGGTAAAATATACCACAGATGAGTTTGTCAACGAAT
TCTTTATGAATACTTAGCAGAGGCCAGTGTGTGTTTCCCAAAGTCTTTCTGTTGTGCATAATTTGTTG
GACTCTAAGATCAACACCCTGTTATCATTGTGCCAAGATCCAAATTTGTTAAATCCAATCCATGGAATTG
TGCAGAGTGTGGTGTACCATGAAGAATCCCCACCACAATACCAAACATCTTACTGCAAAGTTTTGGTTT
TAATGGCTTGTGGCGTTTGCAGGACCGTTTTCAAAGCAAACACAAATCCAGACTATGCTGAGCTTATT
GTTAAGTTTCTGATGCCTTGTGACACGTACCTGCCTGGAATTGATGAAGAAACAGTGAAGAATCCC
TCCTGACTCCCACATCTTTACCCTCCTGCAGTGCAGAGCCAGCTTAGTATCACTGCCAACCTTAACTT
TTCTAATTCATGACCTCACTTGAACCTCCCAGCATTCCCAGGAATCGACAAGGAGAAGCTTGAACCTC
TCCCTTACCCTGACCTGTAACAGTGGACGAACTCGCCACGGATCCGCAAGCCAAGTGCAGAAGCAAA
GAAGCGCTGGCAGTTTCAAACGTAATAGCATTAAAGAAGATCGTG

```

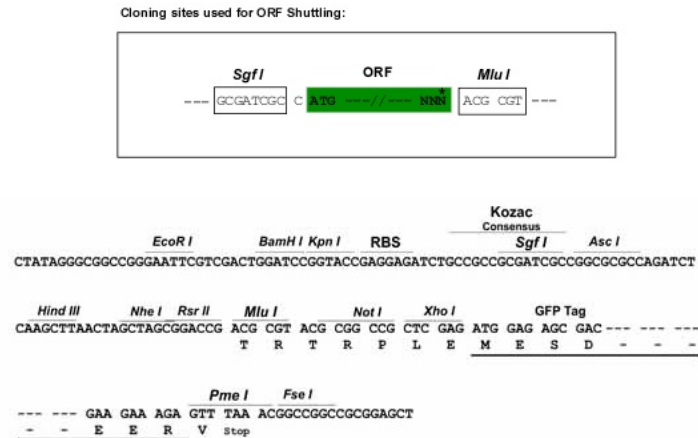
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG220425 representing NM_001042492
 Red=Cloning site Green=Tags(s)

MAAHRPVEVWQAVVSRFDEQLPIKTGQQNTHTKVSTEHNKECLINISKYKFSLVISGLTTILKVNMMRI
 FGEAAEKNLYLSQLIILDTEKLAGQPKDTRMLDETMLVKQLLPEICHFLHTCREGNQHAAELRNSASG
 VLFSLSCNNFNAVFSRISTRLEQLTVCSSEDNVDVHDIELLQYINVDCAKLKRLKETAFAFKALKKVAQL
 AVINSLKAFWNWVENYPDEFKLYQIPQTDMAECAEKLFDLVDFGAESTKRKAAVWPLQIILLILCPEI
 IQDISKDVVDENNMNKKLFLDSLRLKALAGHGSRQLTESAAIACVKLCKASTYINWEDNSVIFLLVQSMV
 VDLKNLLFNPSKPF SRGSQPADVDLMIDCLVSCFRISPHNNQHFKICLAQNSPSTFHVYLVNSLHRIITN
 SALDWPKIDAVYCHSVELRNMFGETLHKAVQCGGAHPAIRMASLTFKEKVTSLKFKPKPTDLETRSYK
 YLLL SMVKLIHADPKLLLCNPRKQGPETQGSTAEITGLVQLVPQSHMPEIAQEAMEALLVLHQDSIDL
 WNPDPAPVETFWISSQMLFYICKKLTSHQMLSSTEILKWLREILICRNKFLKKNADRSSCHFLFYGVG
 CDIPSSGNTSQMSMDHEELLRTPGASLRKKGKNSMDSAAGCSGTPPICRQAQTKLEVALYMFLWNPDE
 AVL VAMSCFRHLCEEADIRCGVDEVSVNLLPNYNTFMEFASVSNMMSTGRAALQKRVMLLRRIEHTA
 GNTEAWEDTHAKWEQATKILNYPKAKMEDGQAAESLHKTIKRRMSHVSGGGSIDLSDTDSLQEWINMT
 GFLCALGGVCLQQRNSGLATYSPMPGPVSRKSGSMISVMSSEGNADTPVSKFMDRLLSLMVCNHEKVGL
 QIRTNVKDLVGLELSPALYPMLFNKLKNTISKFFDSQGVLLTDTNTQFVEQTIATMKNLLDNHTEGSSE
 HLGQASIETMMLNLVRYRVVLGNMVHAIQIKTKLCQLVEVMARRDDLSCQEMKFRNKMEYLDWVVMG
 TSNQAADDVVKCLTRDLDAQSMEAVVSLLAGLPLQPEEGDGVELMEAKSQLFLKYFTLFMNLNDCEVE
 DESAQTGGRKRGMSRRLASLRHCTVLA MSNLLNANVDSGLMHSIGLGYHKDLQTRATFMEVLT KILQQT
 EFDTLAETVLAADRFERLVELVTMMGDQGELPIAMALANVPCSQWDELARVLTFLFDSRHLLYQLLWNMF
 SKEVELADSMQTLFRGNLASKIMTFCKVYGYATYLQKLLDPLLRIVITSSDWQHVSEFVDPTRLEPSES
 LEENQRNLLQMTEKF FHAIISSSEFPQLRSVCHCLYQATCHSLLNKATVKEKKENKKS SVVSQRFPQNS
 IGAVGSAMFLRFINPAIVSPYEAGILDKKPPPRIERGLKLM SKILQSIANHVLF TKEEHMRPFNDFVKS
 FDAARRFFLDIASDCPTSDAVNHSLSFISDGNVLAHLRLLWNNQEKIGQYLSNRDHKAVGRRPFDKMAT
 LLAYLGPPEHKPVADTHWSSLNLTSSKFEEMTRHQVHEKEEFKALKTLSIFYQAGTSKAGNPIFYVVAR
 RFKGTGQINGDLLIYHVLLTLKPYAKPYEIVVDLTHTGPSNRFKTDFLSKWVVFPGFAYDNVSAVYIYN
 CNSWVREYTKYHERLLTGLKGSKRLVFIDCPGKLAEHIEHEQQKLPAA TLAL EEDLKVFHNALKL AHKDT
 KVSIVKGVSTAVQVTS AERTKVLGQSVFLNDIYYASEIEEICLVENQFTLTIANQGTPLTFMHQECEAIV
 QSIHIRTWELSQPDSIPQHTKIRPKDVPGLLNIALNLGSSDPSLRSAAYNLLCALTCTFNKIEGQ
 LLETSGLCIPANNTLFI VSI SKTLAANEPHLLTLEFLEECISGFSKSSIELKHLCL EYMPWLSNLVRFCK
 HNDDAKRQVTAILDKLTMTINEKQMYPSIQAKI WGS LGQITDLLDVVLD SFIKTSATGGLGSIKAEVM
 ADTAVALASGNVKLVSSKVI GRMCKIIDKTCL SPTPTLEQHLMWDDIAILARYMLMLSFNNSLDVAHLP
 YLFHVVTFLVATGPLSLRASTHGLVINI IHS LCTCSQLHFSEETKQVLRSLTEFSLPKFYLLFGISKVK
 SAAVIAFRSSYRDRSFSPG SYERETFALTSLETVTEALLEIMEACMRDIPTCKWLDQWTELAQRFAFYQY
 PSLQPRALVVFGCISKRVSHGQIKQIRILSKALESCLKGPDTYNSQVL IEATVIALTKLQPLLNKDSPL
 HKALFWAVAVLQLDEVNLYSAGTALLEQNLHTLDSLRFNDKSPEEVFMAIRNPLEWHCKQMDHFVGLN
 FNSNFNFALVGHLLKGYRHPSPAI VARTVRILHTLLTLV NKHRNCDKFEVNTQSVAYLAALLTVSEEVRS
 RCSLKHRRKSLLLTDISMENVPMDTYPIH HGDP SYRTLKETQPWSSPKGSEGYLAATYPTVGQTSRARKS
 MSLDMGQPSQANTKLLGTRKSF DHLISDTKAPKRQEMESGITTPPKMRRVAETDYEMETQRISSSQHP
 HLRKVSVSESNVLLDEEVLTPKIQALLTLVATLVKYTTDFDQRILYEYLAESVVFVKVFPV VHNLL
 DSKINTLLSLCQDPNLLNPIHGIVQSVVYHEESPPQYQTSYLSQSF GNFGLWRFAGPFSKQTQIPDYAELI
 VKFLDALIDTYLPGIDEETSEESLLTPTSLYPPALQSLSITANLNLNSMSTSLATSQHS PGIDKENVEL
 SPTTGHCNSGRTRHGSASQVQKQRSAGSFKRNSIKKIV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001042492

ORF Size: 8514 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001042492.1](#), [NP_001035957.1](#)

RefSeq Size: 12394 bp

RefSeq ORF: 8520 bp

Locus ID: 4763

UniProt ID: [P21359](#)

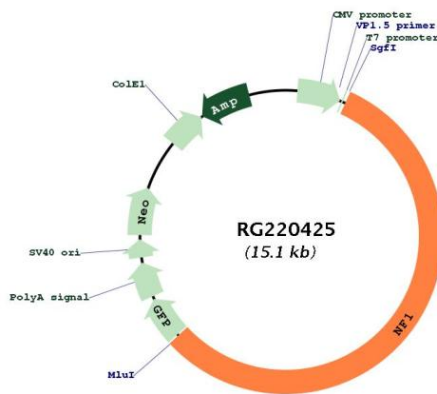
Cytogenetics: 17q11.2

Protein Families: Druggable Genome

Protein Pathways: MAPK signaling pathway

Gene Summary: 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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220425