

## Product datasheet for **SC323151**

### Neurofibromin (NF1) (NM\_001128147) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neurofibromin (NF1) (NM_001128147) Human Untagged Clone
Tag:	Tag Free
Symbol:	NF1
Synonyms:	NFNS; VRNF; WSS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



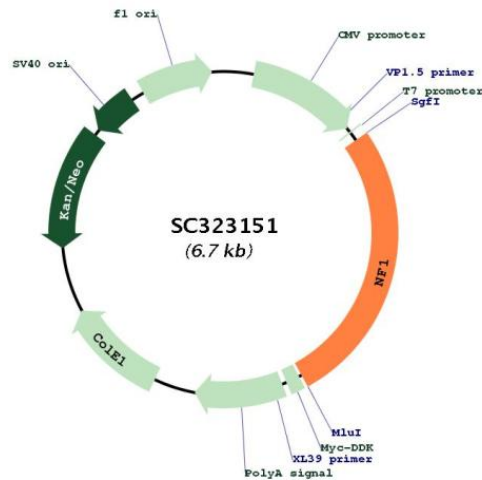
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**Fully Sequenced ORF:** >SC323151 representing NM\_001128147.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCGCGCACAGGCCGGTGAATGGGTCCAGGCCGTGGTCAGCCGCTTCGACGAGCAGCTTCCAATA
AAAACAGGACAGCAGAACACACATACCAAAGTCAGTACTGAGCACAAACAAGGAATGTCTAATCAATATT
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TTGCTTTGTAATCCAAGAAAACAGGGGCCGAAACCAAGGCAGTACAGCAGAATTAATTACAGGGCTC
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CATCAGTTAGATAGCATTGATTTGTGGAATCCTGATGCTCCTGTAGAAACATTTTGGGAGATTAGGTAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001128147

**Insert Size:** 1782 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001128147.2](#)

**RefSeq Size:** 2939 bp

**RefSeq ORF:** 1782 bp

**Locus ID:** 4763

**UniProt ID:** [P21359](#)

**Cytogenetics:** 17q11.2

**Protein Families:** Druggable Genome

**Protein Pathways:** MAPK signaling pathway

**MW:** 67.5 kDa

**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]  
Transcript Variant: This variant (3) lacks multiple 3' exons and has an alternate 3' end, as compared to variant 1. The resulting isoform (3) has a much shorter and different C-terminus, and lacks ras-GTPase activating domain and SEC14 domain, compared to isoform 1.