

Product datasheet for **RG233078**

HEF1 (NEDD9) (NM_001271033) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEF1 (NEDD9) (NM_001271033) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEDD9
Synonyms:	CAS-L; CAS2; CASL; CASS2; HEF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG233078 representing NM_001271033
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGTATAAGGTGATAACCCCGTGAGGACAGGCCATGGCTACGTATACGAGTACCCATCCAGATACC
AAAAGGACGTCTATGATATCCCTCCTTCTCATACCACTCAAGGGGTATACGACATCCCTCCCTCATCAGC
AAAAGGCCTGTGTTTTAGTTCAGTGGGAGAGATAAAACCTCAAGGGGTGATGACATCCCGCCTACA
AAAGGGGTATATGCCATTCGCCCTCTGCTTGCCTGGGATGAAGCAGGGCTTAGGGAAAAAGACTATGACT
TCCCCCTCCCATGAGACAAGCTGGAAGGCCGGACCTCAGACCGAGGGGTTTATGACATTCCTCCAAC
CTGCACCAAGCCAGCAGGAAGGACCTTCAATAAATACTGTGACATTCAGGAGCTGCAGAACCG
GTGGCTCGAAGGCCAGAGCCTGTCCCGAATCACCCACCCCGCAACTCGGACAGTCACTGGGCTCTC
AGAACGACGCATATGATGTCCCGGAGGCTTCAGTTTCTTGAGCCACCAGCAGAAACCAGTGAGAAAGC
AAACCCAGGAAAGGGATGGTGTATGATGTCCCTCTGCATAACCCGCCAGATGCTAAAGGCTCTCGG
GACTTGGTGGATGGGATCAACCGATTGTCTTCTCCAGTACAGGACGACCCGGAGTAACATGTCCACGT
CTTCCACCTCCTCAAGGAGTCCCTCACTGTGACCTCCCGAGCTCAGGACAAAAGGCTTCTCCTGGATCC
AGACACAGCTATTGAGAGACTTCAGCGGCTCCAGCAGGCCCTTGAGATGGGTGTCTCCAGCCTAATGGCA
CTGGTCACTACCGACTGGCGGTGTACGGATATATGAAAAGACACATCAATGAAATACGCACAGCAGTGG
ACAAGTGGAGCTGTTCCTGAAGGAGTACCTCCACTTTGTCAAGGGAGCTGTTGCAAAATGCTGCCTGCC
CCCGAACTCATCTCCACAACAAGATGAAGCGGGAGCTGCAACGAGTTGAAGACTCCCACCAGATCCTG
AGTCAAACCAGCCATGACTTAAATGAGTGCAGCTGGTCCCTGAATATCTTGCCATCAACAAGCCCCAGA
ACAAGTGTGACGATCTGGACCGTTTGTGATGGTGGCAAAGACGGTGGCCGATGACGCCAAGCAGCTCAC
CAACAACCATCAACACCAACGCAGAGGCCCTCTCAGACCCGGCCCTGGCAGCTTGATCTGAAGAATGGG
CCGGAGAGCATCATGAACTCAACGGAGTACCCACACGGTGGCTCCAGGGACAGCTGCTGCATCCTGGTG
ACCACAAGGCCAGGCCACAACAAGGCACTGCCCCAGGCCCTGAGCAAGGAGCAGGCCCTGACTGTAG
CAGCAGTGTGGTCTGAGAGGAGCTGGATGGATGACTACGATTACGTCCACCTACAGGGTAAGGAGGAG
TTTGAGAGGCAACAGAAAGAGCTATTGGAAAAAGAGAATATCATGAAACAGAAACAAGATGCAGCTGGAAC
ATCATCAGCTGAGCCAGTTCAGCTGTTGGAACAAGAGATTACAAAGCCCGTGGAGAATGACATCTCGAA
GTGGAAGCCCTCTCAGAGCCTACCCACCACAACAGTGGCGTGAGTGTCTCAGGATCGGCAGTTGCTGTGC
TTCTACTATGACCAATGTGAGACCCATTTCAATTCCTTCTCAACGCCATTGACGCACTCTCAGTTGTG
TCAGCTCAGCCCAGCCCCGCGAATCTTCGTGGCACACAGCAAGTTTGTATCCTCAGTGACACAAACT
GGTGTTCATTGGAGACACGCTGACACGGCAGGTGACTGCCAGGACATTCGCAACAAAGTATGAACTCC
AGCAACCAGCTCTGCGAGCAGCTCAAGACCATAGTCATGGCAACCAAGATGGCCGCCCTCCATTACCCCA
GCACCAGGCCCTGCAGGAAATGGTGCACCAAGTACAGACCTTTCTAGAAATGCCAGCTGTTCAAGCG
CTCTTTGCTGGAGATGGCAACGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233078 representing NM_001271033
 Red=Cloning site Green=Tags(s)

MKYKVITPVRTGHGYVVEYPSRYQKDVDYDIPPSHTTQGVYDIPPSSAKGPVFSVPVGEIKPQGVYDIPPT
 KGVYAIPPSACRDEAGLREKDYDFPPPMRQAGRPDLRPEGVYDIPPTCTKPAGKDLHVKYNCDIPGAAEP
 VARRHQSLSPNHPPPQLGQSVGSQNDAYDVPRGVQFLEPPAETSEKANPQERDGVYDVLHNPPDAKGSR
 DLVDGINRLSFSSTGSTRSNMSTSTSSKESLSASPAQDKRLFLDPTAIERLQRLQQALEMVSSLMA
 LVTTDWRCYGYMERHINEIRTAVDKVELFLKEYLHFVKGAVANAACLPELILHNKMKRELQRVEDSHQIL
 SQTSHDLNECSWSLNILAINKPQNKCDLDRFVMVAKTVPDDAKQLTTTINTNAEALFRPGPSLHLKNG
 PESIMNSTEYPHGGSQGQLLHPGDHKAQAHNKALPPGLSKEQAPDCSSSDGERSWMDYDYLHVGKEE
 FERQQELLEKENIMKQNKMQLEHHQLSQFQLLEQEITKPVENDISKWKPSQSLPTTNSGVSAQDRQLLC
 FYYDQCETHFISLLNAIDALFSCVSSAQPPIFVAHSKFVILSAHKLVFIGDTLTRQVTAQDIRNKVMNS
 SNQLCEQLKTIVMATKMAALHYPSTTALQEMVHQVTDLSRNAQLFKRSLLEMATF

TRTRPLE - GFP Tag - V

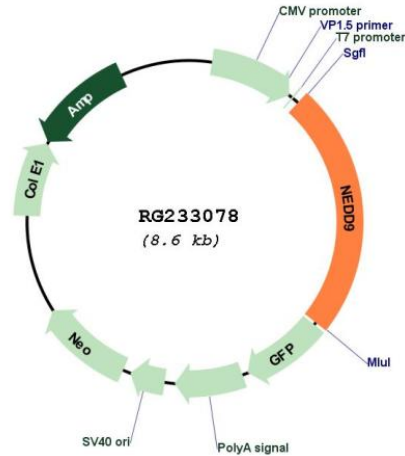
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001271033

ORF Size: 2055 bp

OTI Disclaimer: 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_001271033.1](#), [NP_001257962.1](#)

RefSeq Size: 4103 bp

RefSeq ORF: 2058 bp

Locus ID: 4739

UniProt ID: [Q14511](#)

Cytogenetics: 6p24.2

Gene Summary: The protein encoded by this gene is a member of the CRK-associated substrates family. Members of this family are adhesion docking molecules that mediate protein-protein interactions for signal transduction pathways. This protein is a focal adhesion protein that acts as a scaffold to regulate signaling complexes important in cell attachment, migration and invasion as well as apoptosis and the cell cycle. This protein has also been reported to have a role in cancer metastasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]