

Product datasheet for **RC225908**

NELF (NSMF) (NM_001130969) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	NELF
Synonyms:	HH9; NELF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC225908 representing NM_001130969
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGCGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCTCGGTGGCGGCCAAAGTGC
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCCAGAGTCACCCTGAGAACCAGCAACGGCGCAGATCACCT
 GCTGGCTGATGCCTACTCTGGCCACGACGGGTCCCCGAGATGCAGCCGGCCCCCAGAACAGCGCCGC
 CTGTCCCTCGTCTCAACGGCTGTACGAGGGCAGCCTCTCAGAGGAGCCAGCATTAGGAAGCCCGCAG
 GCGAGGGCCCTCAGCCTCGAGTGTACACCATCTCTGGGAGCCTGCCCTGCTGCCAGCCCTGAGGCGGA
 GGCCATTGAGCTGGCGTGGTGAAGGGCGGCGCAGCGGCACCCCTCACCATCACAGCCAGCCCTGCGC
 GCCAGCCCTGGTGGCAGCCGGGAGGACGTGAGCAGGCCCTGCCAGAGCTGGGCGGGCAGCCGCCAGGGCT
 CCAAGGAGTGCCCGGATGTGCCAGCTGGCTCCTGGCCCCACCCCTCGGGCCTTTGGGCTGGACGAGCC
 ACCTCTGCCTGAGACCTCCGGTCGCCGCAAGAAGCTGGAGAGGATGTACAGCGTTGACCGTGTGTCTGAC
 GACATCCCTATTCTGACTGTTCCCAAGGAAAATCTTTTCAGCTTCCAGACAGCAACCACAACATATGC
 AAGCCATCTCGGTGTTACGGGGCTACGCGGAGAGGAAGCGCCGGAACGGGAGAATGATTCGCGCTGTGT
 AATCCAGAGGAACCTCCGCAACACCTGCGCATGGTGGCAGCCGAGGGGTGAAGGCCAGACGTTTCGCT
 GAGCGGCGCGAGCGGAGCTTCAAGCGGTCTGGAGCGACCCACCCCATGAAGGCCGACACTTCCCACG
 ACTCCCGAGACAGCAGTGACCTGCAGAGCTCCCACTGCAGCTGGACGAGGCCCTTCAGGAGCTGGACTG
 GGACACTGAGAAGGGCTGGAGGCTGTGGCTGCGACACCGAAGGCTTCGTGCCACCAAGGTATGCTC
 ATTTCTCCAAGGTGCCAAGGCTGAGTACATCCCACTATCATCCCGGGGATGACCCCTCCATCATCC
 CCATCTCTACGACCATGAGCAGCAACCTTCGAGGACATCCTTGAGGAGATAGAGAGGAAGCTGAACGT
 CTACCACAAGGGAGCCAAGATCTGGAATAATGCTGATTTCTGCCAGGGAGGTCTGGACACCTCTATCTC
 CTCAAGAACAGGTGGCCACCTTTGCCAAGTGGAGAAGGAAGAGGACATGATTCACTTCTGGAAGCGGC
 TGAGCCGCCTGATGAGCAAGTGAACCCAGAGCCGAACGTCATCCACATCATGGGCTGCTACATTCTGGG
 GAACCCCAATGGAGAGAAGCTGTTCAGAACCTCAGGACCCCTCATGACTCCTTATAGGGTCACCTTCGAG
 TCACCCCTGGAGCTCTCAGCCCAAGGGAAGCAGATGATCGAGACGTAATTTGACTTCCGGTTGTATCGCC
 TGTGGAAGAGCCGCCAGCACTCGAAGCTGTGGACTTTGACGACGTCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225908 representing NM_001130969
 Red=Cloning site Green=Tags(s)

MGAAASRRRLRSEAMSSVAAKVRAARAFGEYLSQSHPENRNGADHLLADAYSQHDGSPMQPAPQNKRR
 LSLVSNGCYEGSLSEEPSIRKPAGEGPQPRVYTISGEPALLPSPEAEIELAVVKGRQRPHHHSQPLR
 ASPGGSREDVSRPCQSWAGSRQGSKECPGCAQLAPGTPPRAFLDQPLPETSGRRKKLERMYSVDRVSD
 DIPIRTWFPKENLFSFQTATTTMQAISVFRGYAERKRRKRENDASVQIRNFRKHLRMVGSRRVKAQTFA
 ERRERSFSRSWSDPTPMKADTSHDSRDSSDLQSSHCTLDEAFEDLDWDEKLEAVACDTEGFVPPKVML
 ISSKVPKAEYIPTIIRDDPSIIPILYDHEHATFEDILEEIERKLNQVYHKGAKIWKMLIFCQGGPGHLYL
 LKNKVATFAKVEKEEDMIHFWKRLSRLMSKVNPEPNVIHIMGCYILGNPNGEKLFQNLRTLMPYRVTFE
 SPLELSAQGKQMIETYDFRLYRLWKSQRHSLKLLDFDDVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8065_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130969

ORF Size: 1590 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.

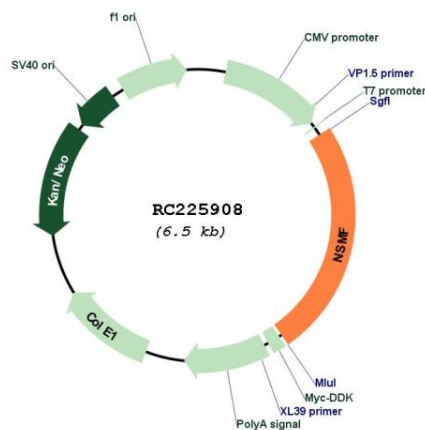
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001130969.3](#)

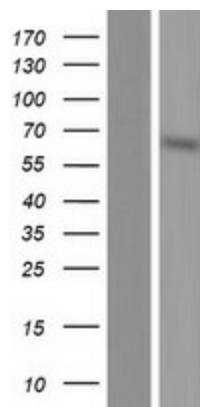
RefSeq ORF: 1593 bp

Locus ID:	26012
UniProt ID:	Q6X4W1
Cytogenetics:	9q34.3
Protein Families:	Druggable Genome
MW:	60 kDa
Gene Summary:	The protein encoded by this gene is involved in guidance of olfactory axon projections and migration of luteinizing hormone-releasing hormone neurons. Defects in this gene are a cause of idiopathic hypogonadotropic hypogonadism (IHH). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2010]

Product images:



Circular map for RC225908



Western blot validation of overexpression lysate (Cat# [LY427331]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225908 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).