

Product datasheet for **RG225872**

NELF (NSMF) (NM_001130970) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NELF (NSMF) (NM_001130970) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NELF
Synonyms:	HH9; NELF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225872 representing NM_001130970
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTGGCGGCCAAAGTGC
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCCAGAGTACCCTGAGAACCGCAACGGCGAGATCACCT
 GCTGGCTGATGCCTACTCTGGCCACGACGGTCCCGGAGATGCAGCCGGCCCCCAGAACAAGCGCCGC
 CTGTCCCTCGTCTCCAACGGCTGCTACGAGGGCAGCCTCTCAGAGGAGCCAGCATTAGGAAGCCCGCAG
 GCGAGGGCCCTCAGCCTCGAGTGTACCATCTCTGGGGAGCCTGCCCTGCTGCCAGCCCTGAGGCGGA
 GGCCATTGAGCTGGCGGTGTTAAGGGGCGCGGAGCGGCACCCTCACCATCACAGCCAGCCCTGCGC
 GCCAGCCCTGGTGGCAGCCGGGAGGACGTGAGCAGGCCCTGCCAGAGCTGGCGGGCAGCCGCCAGGGCT
 CCAAGGAGTGCCCGGATGTGCCAGCTGGCTCCTGGCCCCACCCTCGGGCCTTTGGGCTGGACCAGCC
 ACCTCTGCCTGAGACCTCCGGTCCCGCAAGAAGCTGGAGAGGATGTACAGCGTTGACCGTGTGTCTGAC
 GACATCCCTATTGCTACCTGGTTCCCAAGGAAAATCTTTTCAGCTTCCAGACAGCAACCACAACCTATGC
 AAGCCATCTCGAACTTCCGCAAACACTGCGCATGGTCCGCGAGCCGGAGGGTGAAGGCCAGACGTTTCGC
 TGAGCGGCGCGAGCGGAGCTTACGCCGGTCTGGAGCGACCCACCCCATGAAAGCCGACACTCCACAC
 GACTCCCAGACAGCAGTGCAGAGCTCCACTGCACGCTGGACGAGGCCCTTCGAGGACCTGGACT
 GGGACTGAGAAGGGCCTGGAGGCTGTGGCTGCGACACCGAAGGCTTCGTGCCACCAAAGGTCATGCT
 CATTTCTCCAAGGTGCCAAGGCTGAGTACATCCCCTATCATCCGCCGGATGACCCCTCCATCATC
 CCCACTCTACGACCATGAGCAGCAACCTTCGAGGACATCCTTGAGGAGATAGAGAGGAAGCTGAACG
 TCTACCACAAGGAGCCAAAGATCTGAAAATGCTGATTTTCTGCCAGGGAGGCTCTGGACACCTATCT
 CCTCAAGAACAAGGTGGCCACCTTTGCCAAAGTGGAGAAGGAAGAGGACATGATTTCACTTCTGGAAGCGG
 CTGAGCCGCTGATGAGCAAAGTGAACCCAGAGCCGAACGTCATCCACATCATGGGCTGCTACATTCTGG
 GAAACCCCAATGGAGAGAAGCTGTTCCAGAACCTCAGGACCCCTCATGACTCCTTATAGGGTACCTTCGA
 GTCACCCCTGGAGCTCTCAGCCCAAGGGAAGCAGATGATCGAGACGTAATTTGACTTCCGGTTGTATCGC
 CTGTGGAAGAGCCCGCAGCACTCGAAGCTGCTGGACTTTGACGACGTCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225872 representing NM_001130970
 Red=Cloning site Green=Tags(s)

MGAAASRRRALRSEAMSSVAAKVRARAFGEYLSQSHPENRNGADHLLADAYSGHDGSPMQPAPQNKRR
 LSLVSNGCYEGSLSEEPSIRKPAGEGPQPRVYITISGEPALLPSPEAEIELAVVKRRQRHPHHHSQPLR
 ASPGGSREDVSRPCQSWAGSRQGSKECPGCAQLAPGPTPRAFGLDQPPLPETSGRKKLERMYSVDRVSD
 DIPIRTWFPKENLFSFQTATTTMQAISNFRKHLRMVGSRRVKAQTF AERRERSFSRSWSDPTPMKADTSH
 DSRDSSDLQSSHCTLDEAFEDLDWDEKLEAVACDTEGFVPPKVMLISSKVPKAEYIPTIIRRDDPSII
 PILDHEHATFEDILEEIERKLNHYHKGAKIWKMLIFCQGGPHLYLLKNKVATFAKVEKEEDMIHFWKR
 LSRLMSKVNPEPNVIHIMGCYILGNPNGEKLFQNLRTLMTPIRVTFESPLELSAQKQMIETYDFRFLYR
 LWKSRQHSKLLDFDDVL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001130970

ORF Size: 1521 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_001130970.1](#), [NP_001124442.1](#)

RefSeq Size: 3583 bp

RefSeq ORF: 1524 bp

Locus ID: 26012

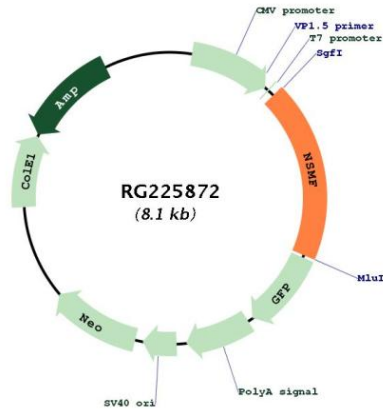
UniProt ID: [Q6X4W1](#)

Cytogenetics: 9q34.3

Protein Families: Druggable Genome

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 RG225872