

Product datasheet for **RG225867**

NELF (NSMF) (NM_001130971) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NELF (NSMF) (NM_001130971) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NSMF
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:

>RG225867 representing NM_001130971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCGCCGCCCTCCAGGAGGAGGGCGCTGAGGAGCGAGGCCATGTCCTCGGTGGCGGCCAAAGTGC
 GAGCAGCCCGAGCGTTTGGAGAGTACCTGTCCCAGAGTACCCTGAGAACCGCAACGGCGAGATCACCT
 GCTGGCTGATGCCTACTCTGGCCACGACGGTCCCGGAGATGCAGCCGGCCCCCAGAACAAGCGCCGC
 CTGTCCCTCGTCTCCAACGGCTGCTACGAGGGCAGCCTCTCAGAGGAGCCAGCATTAGGAAGCCCGCAG
 GCGAGGGCCCTCAGCCTCGAGTGTACACCATCTCTGGGAGCCTGCCCTGCTGCCAGCCCTGAGGCGGA
 GGCCATTGAGCTGGCGGTGTTGAAGGGGCGCGGCAGCGGCACCCTCACCATCACAGCCAGCCCTGCGC
 GCCAGCCCTGGTGGCAGCCGGGAGGACGTGAGCAGGCCCTGCCAGAGCTGGCGGGCAGCCGCCAGGGCT
 CCAAGGAGTGCCCGGATGTGCCAGCTGGCTCCTGGCCCCACCCTCGGGCCTTTGGGTGGACCAGCC
 ACCTCTGCCTGAGACCTCCGGTCCCGCAAGAAGCTGGAGAGGATGTACAGCGTTGACCGTGTGTCTGAC
 GACATCCCTATTCTGACCTGGTTCCCAAGGAAAATCTTTTCAGCTTCCAGACAGCAACCACAACCTATGC
 AAGCGAATTCGCAACACCTGCGCATGGTCGGCAGCCGGAGGGTGAAGGCCAGACGTTTCGCTGAGCG
 GCGCGAGCGGAGCTTTCAGCCGGTCTGGAGCGACCCACCCCATGAAAGCCGACACTTCCACGACTCC
 CGAGACAGCAGTGACCTGCAGAGCTCCACTGCACGCTGGACGAGGCCTTCGAGGACCTGGACTGGGACA
 CTGAGAAGGGCCTGGAGGCTGTGGCCTGCGACACCGAAGGCTTCGTGCCACCAAAGGTCATGCTCATTTC
 CTCAAGGTGCCAAGGCTGAGTACATCCCACATATCATCCGCCGGATGACCCCTCCATCATCCCATC
 CTCTACGACCATGAGCACGCAACCTTCGAGGACATCCTTGAGGAGATAGAGAGGAAGCTGAACGCTTACC
 ACAAGGGAGCCAAGATCTGGAATACTGATTTTCTGCCAGGGAGTCTGGACACCTCTATCTCTCAA
 GAACAAGGTGGCCACCTTTGCCAAAGTGGAGAAGGAAGAGGACATGATTAACCTTCTGGAAGCGGCTGAGC
 CGCCTGATGAGCAAAGTGAACCCAGAGCCGAACGTCATCCACATCATGGGCTGCTACATTCTGGGAACC
 CCAATGGAGAGAAGCTGTTCCAGAACCTCAGGACCCTCATGACTCCTTATAGGGTACCTTCGAGTCACC
 CCTGGAGCTCTCAGCCCAAGGAAGCAGATGATCGAGACGTACTTTGACTCCGGTTGTATCGCCTGTGG
 AAGAGCCGCCAGCACTCGAAGCTGCTGGACTTTGACGACGTCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225867 representing NM_001130971
 Red=Cloning site Green=Tags(s)

MGAAASRRRALRSEAMSSVAAKVRARAFGEYLSQSHPENRNGADHLLADAYSGHDGSPMQPAPQNKRR
 LSLVSNGCYEGSLSEEPSIRKPAGEGPQPRVYITISGEPALLPSPEAEIELAVVKRRQRHPHHHSQPLR
 ASPGGSREDVSRPCQSWAGSRQGSKECPGCAQLAPGPTPRAFGLDQPPLPETSGRKKLERMYSVDRVSD
 DIPIRTWFPKENLFSFQTATTTMQANFRKHLRMVGSRRVKAQTF AERRERSFSRSWSDPTPMKADTSHDS
 RDSSDLQSSHCTLDEAFEDLDWDEKLEAVACDTEGFVPPKVMLISSKVPKAEYIPTIIRDDPSIPI
 LYDHEHATFEDILEEIERKLNIVYHKGAKIWKMLIFCQGGPGHLYLLKNKVATFAKVEKEEDMIHFWKRLS
 RLMSKVNPEPNVIHIMGCYILGNPNGEKLFQNLRLMTPYRVTFESPLELSAQGKQMIETYDFRLYRLW
 KSRQHSKLLDFDDVL

TRTRPLE - GFP Tag - V

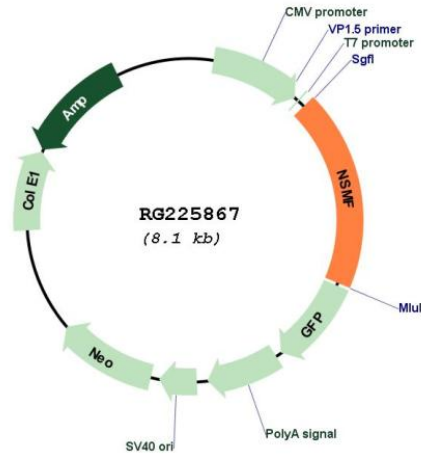
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN:	NM_001130971
ORF Size:	1515 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:	<ol style="list-style-type: none">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:	<u>NM_001130971.1, NP_001124443.1</u>
RefSeq Size:	3577 bp
RefSeq ORF:	1518 bp
Locus ID:	26012
UniProt ID:	<u>Q6X4W1</u>
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]