

## Product datasheet for **RG208658**

### NELFE (NM\_002904) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NELFE (NM_002904) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NELFE
Synonyms:	D6S45; NELF-E; RD; RDBP; RDP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208658 representing NM_002904 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGGTGATACCCCCGGACTGAGCGAGGAAGAGGAGGCTCTGCAGAAGAAATCAACAAGCTCAAGA  
AAAAGAAAAGGCATTGCTGGCTCTGAAGAAGCAAAGTAGCAGCAGCACAAACCAGCCAAGGTGGTGTCAA  
ACGCTCACTATCAGAGCAGCCTGTCATGGACACAGCCACAGCAACAGAGCAGGCAAAGCAGCTGGTGAAG  
TCAGGAGCCATCAGTGCCATCAAGGCTGAGACCAAGAAGCTCAGGCTTCAAGCGTTCTCGAACCTTGAGG  
GGAAGTTAAAGGACCCCGAGAAGGGACCAAGTCCCCTTTCCAGCCGTTCCAGAGGAGCATATCTGCTGA  
TGATGACCTGCAAGAGTCATCCAGACGTCCCAGAGGAAATCTCTGTATGAGAGCTTTGTGCTTCTAGT  
GATCGACTTCGAGAACTAGGACCAGATGGAGAAGAGGCAGAGGGCCAGGGGCTGGTGTGGTCCCCCTC  
GAAGCTTTGACTGGGGCTATGAAGAACGCAAGTGGTGCCCACTCCTCAGCCTCCCCCCCCGAAGCCGAG  
CCGGGACCGCAGCCATGAGAGGAACCGGACAGAGACCGAGATCGGGAGCGGGATCGAGACCGGGATCGA  
GACAGAGACAGAGCGGGACAGGGATCGGGATCGGGATCGAGATCGAGACCGGGAACCGGACAGGGATC  
GGGAGCGGGATCGAGACCGAGACCGAGAGGGTCTTTCCGAGGTCGGATTCATTCCCTGAACGGCGAGC  
CCCTAGGAAAGGGAATACTCTCTATGTATATGGAGAAGACATGACACCCACCTTCTCCGTGGGGCTTC  
TCTCCTTTTGGAAACATCATTGACCTCTCCATGGACCCACCCAGAACTGTGCCTTCGTCACCTATGAAA  
AGATGGAGTCAGCAGATCAGGCCGTTGCTGAGCTCAACGGGACCCAGGTGGAGTCTGTACAGCTCAAAGT  
CAACATAGCCCGAAAACAGCCCATGCTGGATGCCGCTACTGGCAAGTCTGTCTGGGGCTCCCTCGTGTG  
CAGAACAGCCCTAAGGGTTGCCACCGGACAAGAGGACCCAGATTGTCTACAGTGATGACGTCTACAAGG  
AAAACCTTGTGGATGGCTTC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208658 representing NM\_002904  
 Red=Cloning site Green=Tags(s)

MLVIPPGLSEEEALQKKFNKLLKKKKALLALKKQSSSSTTSQGGVKRSLSEQPVMdTATATEQAKQLVK  
 SGAlSAIKAETKNSGFKRSRTLEGKLDPEKGPVPTFPFQRSISADDDLQESSRRPQRKSLYESFVSS  
 DRLRELGPDGEEAEGPGAGDGPPRSFDWGYEERSGAHSSASPPRSRSRDRSHERNRDRDRERDRDRDR  
 DRDRERDRDRDRDRDRERDRDRERDRDRDREGPFRRSDSFPERRAPRKGNTLYVYGEDMTPTLLRGAF  
 SPFGNIIDL SMDPPRNCAFTYKEMESADQAVAE LNGTQVESVQLKVNIARKQPMLDAATGKSVWGLAV  
 QNSPKGCHRDKRTQIVYSDDVYKENLVDGF

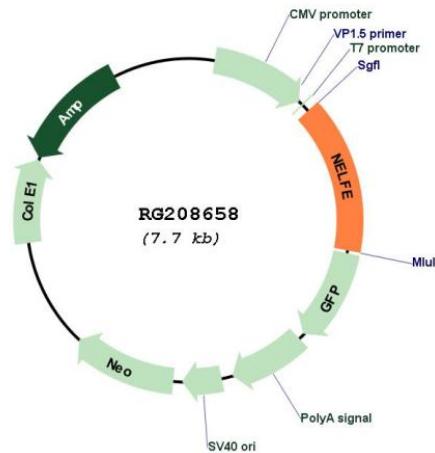
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_002904

<b>ORF Size:</b>	1140 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002904.6</a>
<b>RefSeq Size:</b>	1568 bp
<b>RefSeq ORF:</b>	1143 bp
<b>Locus ID:</b>	7936
<b>UniProt ID:</b>	<a href="#">P18615</a>
<b>Cytogenetics:</b>	6p21.33
<b>Domains:</b>	RRM
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	<p>The protein encoded by this gene is part of a complex termed negative elongation factor (NELF) which represses RNA polymerase II transcript elongation. This protein bears similarity to nuclear RNA-binding proteins; however, it has not been demonstrated that this protein binds RNA. The protein contains a tract of alternating basic and acidic residues, largely arginine (R) and aspartic acid (D). The gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. [provided by RefSeq, Jul 2008]</p>