

## Product datasheet for **MG205656**

### Nelfe (NM\_001045864) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nelfe (NM\_001045864) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Nelfe  
**Synonyms:** D17H6S45; NELF-E; RD; Rdbp  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG205656 representing NM\_001045864  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTGGTGATACCTCCGGGGCTGAGTGAAGAGGAAGAGGCACTGCAGAAGAAGTTCAACAACTCAAGA  
 AGAAGAAAAGGCATTGCTGGCTCTGAAGAAGCAGAGCAGCAGCGGCCAGCGAGCCAGGGCGGTGTCAA  
 ACGCTCACTGTCAGAGCAGCCTGTGGTGGACACTGCCACAGCAACAGAACAGGCCAAACAACTGGTGAAG  
 TCAGGAGCCATCAGTGCCATCAAGGCTGAAACTAAGAACTCAGGCTTCAAACGTTCTCGGACCCTGGAAG  
 GGAAGTTAAAGGACCCAGAGAAGGGCCTGTCCCCTTTCCAGCCGTTCCAGAGGAGCATGTCTGCTGA  
 TGAGGACCTACAGGAGCCATCCAGACGTCCCAGAGGAAATCTCTGTATGAAAGCTTTGTGCTTCTAGT  
 GATCGGCTTCGGGAAGTGGGACAAGATGGAGAAGAAGCAGAGGCCCCCGGGGCTGGTGATGGCCACCTC  
 GAGGCTTTGACTGGAGCTATGAAGAGCATGGTAGCGCCGCTCCTCAGCCTCCCCTCCCCGAAGCCGAG  
 CAGGGACCGAAGTCATGACCGGAGCCGAGATAGGGATCGGGACAAAGAGAGAGACAGAGACCGAGATCGA  
 GATCGAGACAGAGACCGGGATAAAGACAAAGACAGAGACCGGGATCGAGACAGAGACCGGGACCGAGATC  
 GGAACAGAGACCGAGAGGGCCCTTCCGCAGGTCAGACTATTCCCCGAACGGAGGGCCCTCGAAAGGG  
 GAACACACTGTATGTGTATGGAGAGGACATGACGCCACCCTCCTCCGCGGGCCTTCTCTCCCTTTGGA  
 AATATCATCGACCTCTCCATGGACCCACCCAGAACTGTGCCTTGTACCTACGAGAAGATGGAGTCTG  
 CAGATCAGGCTGTTGCTGAGCTCAATGGACCCAGGTTGGAATCTGTGCAGCTTAAAGTCAACATAGCCCG  
 AAAACAGCCCATGCTGGACGCTGCTACTGGCAAATCTGTCTGGGCTCCCTTGTGTCCAGAACAGCCCT  
 AAGGGTTGCCATCGAGACAAGAGGACCCAGATTGTGTACAGTGACGATCTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205656 representing NM\_001045864  
Red=Cloning site Green=Tags(s)

MLVIPPGLSEEEALQKKFNKLLLLKALLLKKQSSSGPASQGGVKRSLSEQPVVDTATATEQAKQLVK  
 SGATSAIKAETKNSGFKRSRTLEGKLDPEKGPVPTFPFQSRMSADELDQEPSRRPQRKSLYESFVSS  
 DRLRELQDGEAEAPGAGDPPRGFDWSYEEHGSARSSASPPRSRSDRSHDRSRDRDRDKERDRDRDR  
 DRDRDRDKDKDRDRDRDRDRDRDRERDREGPFRRSDSFPERRAPRKNTLYVYGEDMTPTLLRGAFSPFG  
 NIIDLSDPPRNCAFTVYEKMESADQAVAEI NGTQVESVQLKVNIAARKQMLDAATGKSVWGLAVQNSP  
 KGCHRDKRTQIVYSDDL

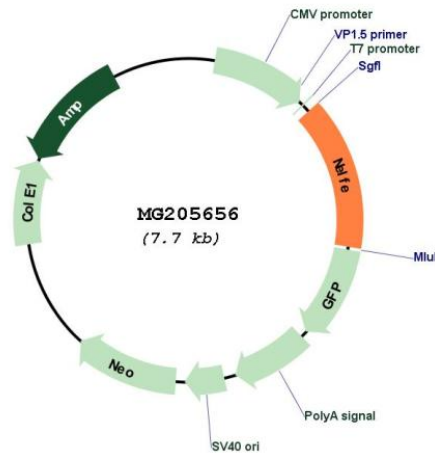
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001045864

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1104 bp   |
| <b>OTI Disclaimer:</b>        | 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>  |
| <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_001045864.1</a> , <a href="#">NP_001039329.1</a>   |
| <b>RefSeq Size:</b>           | 1621 bp   |
| <b>RefSeq ORF:</b>            | 1104 bp   |
| <b>Locus ID:</b>              | 27632   |
| <b>UniProt ID:</b>            | <a href="#">P19426</a>  |
| <b>Cytogenetics:</b>          | 17 18.4 cM  |
| <b>Gene Summary:</b>          | Essential component of the NELF complex, a complex that negatively regulates the elongation of transcription by RNA polymerase II (By similarity). The NELF complex, which acts via an association with the DSIF complex and causes transcriptional pausing, is counteracted by the P-TEFb kinase complex (By similarity). Provides the strongest RNA binding activity of the NELF complex and may initially recruit the NELF complex to RNA (By similarity).[UniProtKB/Swiss-Prot Function]                      |