

Product datasheet for **MG226911**

Nrg1 (NM_178591) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_178591) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nrg1
Synonyms:	6030402G23Rik; ARIA; D230005F13Rik; GGF; GGFII; Hgl; HRG; HRGalpha; NDF; SMDF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226911 representing NM_178591
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATTTATCCCCAGACATGTCTGAGGGAGCTGGCGGGAGGTCCTCCAGCCCTCCACTCAGCTGA
 GTGCAGACCCATCTCTCGATGGGCTTCCGGCAGCGGAACATATGCCAGACACCCACAGAAAGATGGGAG
 AAGCCCTGGACTCCTGGCCTGGCCGTGCCCTGTGTCTGCCTGGAAGCGGAGCGTCTCAGAGGGTGC
 CTAACCTCCGAGAAGATCTGCATTGTTCCATTCTGGCTGTCTAGTAAGCCTCTGCCTCTGCATTGCTG
 GCCTAAAGTGGGTATTTGTGGACAAGATATTCGAATACGACTCTCCTACCCACCTTGACCCTGGGGGGTT
 AGGCCAGGACCCTGTTATTTCTCTGGATCCAACGGCTGCCTCCGCTGTTCTGGTCTCATCCGAGGCATAC
 ACTTCACCTGTCTAAGGCTCAGTCTGAAGCCGAGGCTCATGTTACAGGGCAAGGTGACCATGTCGCTG
 TGGCCTCTGAACCTTCCGCAGTACCCACCCGGAAGAACC GGCTGTCTGCTTTTCTCCCTTACACTCCAC
 TCCACCGCCCTTCCCTTCTCCAGCTCGGACCCCTGAGGTGAGAACACCCAAGTCAGGAACCTCAGCCACAA
 ACAACAGAAACTAATCTGCAAACTGCTCCTAAACTTTCCACATCTACATCCACGACTGGGACCAGCCATC
 TCATAAAGTGTGCGGAGAAGGAGAAAATTTCTGTGTGAATGGAGGCGAGTGCTTCATGGTGAAGGACCT
 GTCAAACCCCTCAAGATACTTGTGCAAGTGCCCAAATGAGTTTACTGGTGATCGTTGCCAAAACCTACGTA
 ATGGCCAGCTTCTACAAGCATCTGGGATTGAATTTATGGAAGCGGAGGAGCTCTACCAGAAGAGGGTAC
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 CAAGAAACAGCGGCAGAAAGCTTCATGATCGGCTCCGGCAGAGCCTTCGGTGAACGAAACAACATGGTG
 AACATAGCGAATGGCCCTCACCATCAAACCCACCAGAGAATGTGCAACTGGTGAATCAATATGTAT
 CTA AAAACGTCATCTCCAGT GAGCATATTGTGGAGAGAGAAGTGGAGACCTCCTTTTCCACCAGTCACTA
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 CCGGCTCGTATGTCACCTGTAGATTTCCACAGCCAAGCTCCCTAAATCGCCCCCTTCGAAAATGTCTC
 CACCCGTGTCCAGCATGACGGTGTCCATGCCCTCTGTGGCAGTCAGCCCCCTTGTGGAAGAAGAGAGGCC
 TCTGCTTCTTGTGACGCCACCGAGGCTACGGGAGAAGAAGTATGATCATACCCCCAGCAACTCAACTCC
 TTTTCATACAACCTGCACATCAGAGTACCAGCCTCCCCCTAGCCATTGAGGATAGTGGAGGATGAGG
 AATACGAAACGACCCAGGAGTATGAGCCAATTC AAGAGCCTATTAAGAAAAGTCACCAATAGCCGGCGGGC
 CAAAAGAACCAAGCCCAATGGCCACATTGCCAATAGGTTGAAAATGGACAGCAACCCAAGTTCTGTGAGC
 AGTAACTCAGAAAGT GAGACAGAAGATGAAAGAGTAGGTGAAGATACACCATTCTGGGCATACAGAACC
 CCCTGGCAGCCAGCCTTGAGGTGGCCCTGCCTTCCGTCTGGCTGAGAGCAGGACTAACCAGCAGGCCG
 CTTCTCCACACAGGAAGAATTACAGGCCAGGCTGTCTAGTGAATCGCTAACCAAGACCCTATTGCTGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226911 representing NM_178591
 Red=Cloning site Green=Tags(s)

MEIYPPDMSEGAGGRSSSPSTQLSADPSLDGLPAAEHMPDTHTEDGRSPGLLGLAVPCCVCLEAERLRGC
 LNSEKICIVPILACLVSCLCIAGLKWFVVDKIFEYDSPHTLDPGGLGQDPVISLDPTAASAVLVSSEAY
 TSPVSKAQSEAEAHVTGQGDHVAVASEPSAVPTRKNRLSAFPLHSTPPFPSPARTPEVRTPKSGTQPQ
 TTETNLQTAPKLSTSTSTTGTSHLIKAEKEKTFVNGGECFMVKDL SNPSRYLCKCPNEFTGDRCQNYV
 MASFYKHLGIEFMAEELYQKRVLITIGICIAALLVVGIMCVVAYCKTKKQRQKLDRLRQSLRSENNMV
 NIANGPHHPNPPPENVLVNQYVSKNVISSSEHIVEREVETSFSTSHYTSTAHHSTTVTQTPSHSWSNGHT
 ESIISESHSVIMSSVENSRRHSSPAGGPRRLHGLGPRECNFLRHARETPDSYRDSPHSERYVSAMTT
 PARMSPVDFHTPSSPKSPPSEMSPVSSMTVSMPSVAVSPFVEEERPLLLVTPPRLREKKYDHPQQLNS
 FHHNPAHQSTSLPPSPLRIVEDEEYETTQEYEQEPIKIKVTNSRRAKRTKPNGHIANRLEMSNPSSVS
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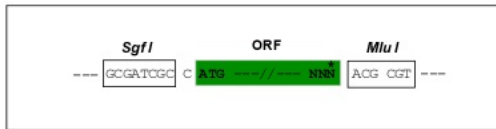
TRTRPLE - GFP Tag - V

Restriction Sites:

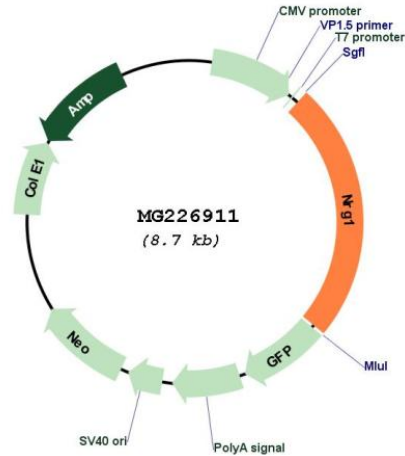
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_178591

ORF Size: 2100 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_178591.3](#)

RefSeq Size: 2103 bp

RefSeq ORF: 2103 bp
Locus ID: 211323
Cytogenetics: 8 A3