

Product datasheet for **RG232817**

NEIL1 (NM_001256552) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEIL1 (NM_001256552) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEIL1
Synonyms:	FPG1; hFPG1; NEI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG232817 representing NM_001256552
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAGGACGGGCCCGAGAGCGCCGCTCTCCCAAACTAGGATTTGGAGCCTCACGTTCTCCCGCA
 AAACGAGCCCTGTGGGTGCCAGGCCAGGGCGGCTCCAGGTGTGGAGGGGCAAGGTACGGCGTCTGC
 CGTCGCTAAGTGCCCTTCCACTTAAGGCACACCTTCGCTCCGATTCCGAACCGCCGGGACAGAGG
 CAAGTGGCAAAGCAGGGAGGGCGGAGGACTCTGCCACCCTCCCTCAGGATGCCTGAGGGCCCGAGCTGC
 ACCTGGCCAGCCAGTTTGTGAATGAGGCCTGCAGGGCGTGGTGTTCGGCGGCTGCGTGGAGAAGTCTC
 TGTACGCCCAACCTGAGGTGCCCTTTGAGAGCAGTGCCTACCGCATCTCAGCTTCAGCCCGGGCAAG
 GAGCTGCGCTGATACTGAGCCCTCTGCCTGGGGCCAGCCCAACAGGAGCCACTGGCCCTGGTCTTCC
 GCTTCGGCATGTCCGGCTCTTTTACGCTGGTCCCGCGAGGAGCTGCCACGCCATGCCACCTGCGCTT
 TTACACGGCCCGCTGGCCCGGCTCGCCCTATGTTTCGTGGACATCCGCCGTTTCGGCCGCTGGGAC
 CTTGGGGAAAGTGGCAGCCGGCCGCGGGCCCTGTGTCTGCAGGAGTACCAGCAGTTCAGGGAGAATG
 TGCTACGAAACCTAGCGGATAAGGCCTTTGACCGCCATCTGCGAGGCCCTCTGGACCAGAGGTTCTT
 CAATGGCATTGGCAACTATCTGCGGGCAGAGATCCTGTACCGGCTGAAGATCCCCCCTTTGAGAAGGCC
 CGCTCGGTCTGGAGGCCCTGCAGCAGCACAGGCCGAGCCGGAGCTGACCCTGAGCCAGAAGATAAGGA
 CCAAGTGCAGAAATCCAGACCTGCTGGAGCTATGTCACTCAGTGCCCAAGGAAGTGGTCCAGTTGGGGG
 CAAAGGCTACGGGTCAGAGAGCGGGGAGGAGGACTTTGCTGCCTTCGAGCCTGGCTGCGCTGCTATGGC
 ATGCCAGGCATGAGCTCCCTGCAGGACCGGCATGGCCGTACCATCTGGTTCAGGGGGATCTGGACCCT
 TGGACCCAAAGGGCGCAAGTCCCGCAAAAAGAAATCCAAGGCCACACAGCTGAGTCTGAGGACAGT
 GGAGGACGCTTTGCCTCCAAGCAAGGCCCTTCCAGGACACGAAGGGCAAAGAGAGACCTTCTTAAGAGG
 ACTGCAACCCAGCGCCCTGAGGGGACCAGCCTCCAGCAGGACCCAGAAGCTCCCACAGTGCCCAAGAAGG
 GGAGGAGAAAGGGGACAGGCAGCCTCTGGCCACTGCAGACCCGGAAGGTCAAGGCTGACATCCCATC
 CTTGGAACCAGAGGGGACCTCAGCCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232817 representing NM_001256552
 Red=Cloning site Green=Tags(s)

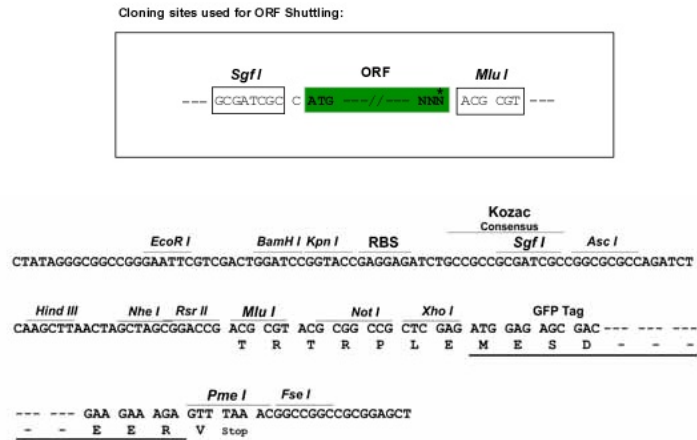
MGRTGPRAPLLPKTRIWSLTF SRKTSVPGARPGAAPRCGGGKVRASAVAKCPLPLKAHLRLRFRTARGQR
 QVAKQGGRRTLPPSLRMPEGPPELHLASQFVNEACRALVFGGCVKSSVSRNPEVPFESSAYRISASARGK
 ELRLILSPLPGAQPQEPALVFRFGMSGFQLVPREELPRHAHLRFYTAPPGPRLALCFVDIRRFGRWD
 LGGKWQPGRGPVLEQYQQFRENVLRLNADKAFDRPICEALLDQRFNFNGIGNYLRAEILYRLKIPPFKA
 RSVLEALQHRPSPELTL SQKIRTKLQNPDLLELCHSVPKEVVQLGGKGYGSESGEEDFAAFRAWLR CYG
 MPGMSLQDRHGRTIWFQDGPGLAPKGRKSRKKKSKATQLSPEDRVEDALPPSKAPSRTRRAKRDLPKR
 TATQRPEGTSLQDPEAPTVPKGRRKGRQAASGHCRPRKVKADIPSLEPEGTSAS

TRTRPLE - GFP Tag - V

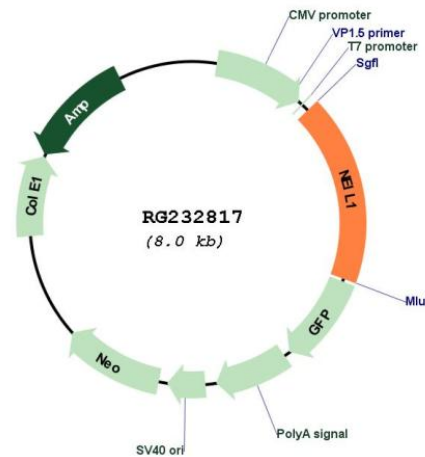
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256552

ORF Size: 1428 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_001256552.1](#), [NP_001243481.1](#)

RefSeq Size: 1820 bp

RefSeq ORF: 1431 bp

Locus ID: 79661

UniProt ID: [Q96F14](#)

Cytogenetics: 15q24.2

Protein Families: Druggable Genome

Protein Pathways: Base excision repair

Gene Summary: This gene is a member of the Nei endonuclease VIII-like gene family which encodes DNA glycosylases. The encoded enzyme participates in the DNA repair pathway by initiating base excision repair by removing damaged bases, primarily oxidized pyrimidines. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]