

Product datasheet for **RG202329**

NEIL1 (NM_024608) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEIL1 (NM_024608) 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)
ORF Nucleotide Sequence:	>RG202329 representing NM_024608 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGGGCCCCGAGCTGCACCTGGCCAGCCAGTTTGTGAATGAGGCCTGCAGGGCGCTGGTGTTCG
GCGGCTGCGTGGAGAAGTCTCTGTGAGCCGCAACCTGAGGTGCCCTTTGAGAGCAGTGCCTACCGCAT
CTCAGCTTCAGCCCGGCAAGGAGCTGCGCTGATACTGAGCCCTCTGCCTGGGGCCAGCCCCAACAG
GAGCCACTGGCCCTGGTCTTCCGCTTCGGCATGTCCGGCTTTTTTCAGCTGGTGGCCCGGAGGAGCTGC
CAGCCATGCCACCTGCCTTTACACGGCCCCGCTGGCCCCGGCTCGCCCTATGTTTCGTGGACAT
CCGCCGTTTCGGCCGCTGGGACCTTGGGGAAAGTGCCAGCCGGCCCGGGCCCTGTGTCTTGCAGGAG
TACCAGCAGTTACAGGAGAATGTGCTACGAAACCTAGCGGATAAAGGCCTTTGACCGGCCATCTGCAGG
CCCTCCTGGACCAGAGGTTCTTCAATGGCATTGGCAACTATCTGCGGGCAGAGATCCTGTACCGGTGAA
GATCCCCCCTTTGAGAAGGCCCGCTCGGTCTGGAGGCCTGCAGCAGCACAGGCCGAGCCCGGAGCTG
ACCCTGAGCCAGAAGATAAAGACCAAGCTGCAGAAATCCAGACCTGCTGGAGCTATGTCACTCAGTCCCCA
AGGAAGTGGTCCAGTTGGGGGCAGGGGCTACGGTGCAGAGCGGGGAGGAGGACTTTGCTGCCTTTTCG
AGCCTGGCTGCGCTGCTATGGCATGCCAGGCATGAGCTCCCTGCAGGACCGGCATGGCCGTACCATCTGG
TTCCAGGGGATCCTGGACCGTTGGCACCCAAAGGGCGCAAGTCCCGCAAAAAGAAATCCAAGGCCACAC
AGCTGAGTCTGAGGACAGAGTGGAGGACGCTTTGCCTCCAAGCAAGGCCCTTCCAGGACACGAAGGGC
AAAGAGAGACCTTCTAAGAGGACTGCAACCCAGCGGCCTGAGGGGACCAGCCTCCAGCAGGACCCAGAA
GCTCCACAGTGCCAAGAAGGGGAGGAGGAAGGGGCGACAGGCAGCCTCTGGCCACTGCAGACCCCGGA
AGGTCAAGGCTGACATCCCATCTTGAACAGAGGGGACCTCAGCCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202329 representing NM_024608
 Red=Cloning site Green=Tags(s)

MPEGPELHLASQFVNEACRALVFGGCVKSSVSRNPEVPFESSAYRISASARGKELRLILSPLPGAQPQQ
 EPLALVFRFGMSGFQLVPREELPRHAHLRFYTAPPGRLALCFVDIRRFGRWDLGGKWQPGRGPCVLQE
 YQQFRENVLRLNADKAFDRPICEALLDQRFNFGIGNYLRAEILYRLKIPPFKARSVLEALQQHRPSPEL
 TLSQKIRTKLQNPDLLELCHSVPKEVVQLGGRGYGSEGEEDFAAFRAWLRCYGMPGMSSLQDRHGRTIW
 FQGDPPGLAPKGRKSRKKKSKATQLSPEDRVEDALPPSKAPSRTRRAKRDLPKRTATQRPEGTSLQQDPE
 APTVPPKGRRKGRQAASGHCRPRKVKADIPSLEPEGTSAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024608

ORF Size: 1170 bp

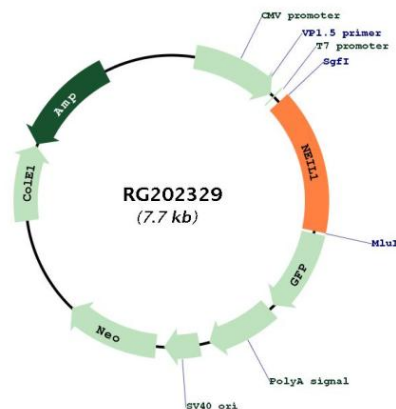
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_024608.1</u> , <u>NP_078884.1</u>
RefSeq Size:	1828 bp
RefSeq ORF:	1173 bp
Locus ID:	79661
UniProt ID:	<u>Q96FI4</u>
Cytogenetics:	15q24.2
Domains:	Fapy_DNA_glyco
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]

Product images:



Circular map for RG202329