

Product datasheet for **RC232817**

NEIL1 (NM_001256552) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEIL1 (NM_001256552) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEIL1
Synonyms:	FPG1; hFPG1; NEI1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC232817 representing NM_001256552
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAGGACGGGCCCGAGAGCGCCGCTCTCCCAAACTAGGATTTGGAGCCTCACGTTCTCCCGCA
 AAACGAGCCCTGTGGGTGCCAGGCCAGGGCGGCTCCAGGTGTGGAGGGGCAAGGTACGGCGTCTGC
 CGTCGCTAAGTGCCCTTCCACTTAAGGCACACCTTCGCTCCGATTCCGAACCGCCGGGACAGAGG
 CAAGTGGCAAAGCAGGGAGGGCGGAGGACTCTGCCACCCTCCCTCAGGATGCCTGAGGGCCCGAGCTGC
 ACCTGGCCAGCCAGTTTGTGAATGAGGCCTGCAGGGCGTGGTGTTCGGCGGCTGCGTGGAGAAGTCTTC
 TGTGAGCCGCAACCTGAGGTGCCCTTTGAGAGCAGTGCCTACCGCATCTCAGCTTCAGCCCGGCAAG
 GAGCTGCGCTGATACTGAGCCCTCTGCCTGGGGCCAGCCCAACAGGAGCCACTGGCCCTGGTCTTCC
 GCTTCGGCATGTCCGGCTCTTTTTCAGCTGGTCCCGCGAGGAGTCCACGCCATGCCACCTGCGCTT
 TTACACGGCCCGCTGGCCCGGCTCGCCCTATGTTTCGTGGACATCCGCCGTTTCGGCCGCTGGGAC
 CTTGGGGAAAGTGGCAGCCGGGCGCGGGCCCTGTGTCTGCAGGAGTACCAGCAGTTCAGGGAGAATG
 TGCTACGAAACCTAGCGGATAAGGCCTTTGACCGCCATCTGCGAGGCCCTCTGGACCAGAGGTTCTT
 CAATGGCATTGGCAACTATCTGCGGGCAGAGATCCTGTACCGGCTGAAGATCCCCCCTTTGAGAAGGCC
 CGCTCGGTCTGGAGGCCCTGCAGCAGCACAGGCCGAGCCGGAGCTGACCCTGAGCCAGAAGATAAGGA
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 ATGCCAGGCATGAGTCCCTGCAGGACCGGCATGGCCGTACCATCTGGTTCAGGGGGATCTGGACCCT
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 GGAGGACGCTTTGCCTCCAAGCAAGGCCCTTCCAGGACACGAAGGGCAAGAGAGACCTTCCCTAAGAGG
 ACTGCAACCCAGCGCCCTGAGGGGACCAGCCTCCAGCAGGACCCAGAAGCTCCCACAGTGCCCAAGAAGG
 GGAGGAGAAAGGGGACAGGCAGCCTCTGGCCACTGCAGACCCCGAAGGTCAAGGCTGACATCCCATC
 CTTGGAACCAGAGGGGACCTCAGCCTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232817 representing NM_001256552
 Red=Cloning site Green=Tags(s)

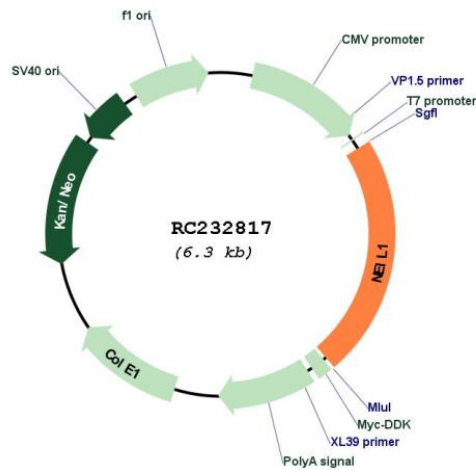
MGRTPRAPLLPKTRISLTFSRKTSVPGARPGAAPRCGGGKVRASAVAKCPLPLKAHLRLRFRTARGQR
 QVAKQGGRRLLPPLRMPEGPPELHLASQFVNEACRALVFGGCVKSSVSRNPEVPFESSAYRISASARGK
 ELRLILSPLPGAQPQPELALVFRFGMSGFQLVPREELPRHAHLRFYTAPPGRLLALCFVDIRRFGRWD
 LGGKWQPRGPGCVLQEYQQFRENVLRLADKAFDRPICEALLDQRFNGIGNYLRAEILYRLKIPPEKA
 RSVLEALQQHRPSPELTLQKIRTKLQNPDLLELCHSVPKEVVQLGGKGYGSESGEEDFAAFRAWLRCYG
 MPGMSSLQDRHGRTIWFQDPPGLAPKGRKSRKKKSKATQLSPEDRVEDALPPSKAPSRTRRAKRDLPKR
 TATQRPEGTSLQQDPEAPTVPKGRKGRQAASGHCRPRKVKADIPSLEPEGTSAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-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:	<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:	NM_001256552.1 , NP_001243481.1
RefSeq Size:	1820 bp
RefSeq ORF:	1431 bp
Locus ID:	79661
UniProt ID:	Q96FI4
Cytogenetics:	15q24.2
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair
MW:	53.4 kDa
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]