

Product datasheet for **SC123674**

NEIL1 (BC010876) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEIL1 (BC010876) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEIL1
Synonyms:	FPG1; hFPG1; NEI1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC010876 edited
 CGACGAGCGGAACGGAGTGC GG GTTCCCGGGGAGGGGGCGTGCAGGATCGGGTTGTGGG
 GGTGCGCTGTAGGGCTAAGGAGAAGATGAGCTTTGGGGGGCCCTGAGGAGGAGGGGAGTC
 AGGATTAACCGAGGACAGGGTCGACGGGGGCATGGGGAGGACGGGCCGAGAGCGCCG
 CTCCTCCCAAACTAGGATTTGGAGCCTCACGTTCTCCCGAAAACGAGCCCTGTGGT
 GCCAGGCCAGGGGCGCTCCCAGGTGTGGAGGGGCAAGGTACGGGCGTCTGCCGCTCGCT
 AAGTGCCCCCTTCCACTTAAGGCACACCTTCGCCTCCGATTCGAAACCGCCCGGGGACAG
 AGGCAAGTGGCAAAGCAGGGAGGGCGGAGACTCTGCCACCCTCCCTCAGGATGCCTGAG
 GGCCCGAGCTGCACCTGGCCAGCCAGTTTGTGAATGAGGCCTGCAGGGCGCTGGTGTT
 GGCGGCTGCGTGGAGAAGTCTCTGTACGCCGCAACCCTGAGGTGCCCTTTGAGAGCAGT
 GCCTACCGCATCTCAGCTTCAGCCCGGGCAAGGAGCTGCGCCTGATACTGAGCCCTCTG
 CCTGGGGCCAGCCCAACAGGAGCCACTGGCCCTGGTCTTCCGCTTCGGCATGTCCGGC
 TCTTTTACAGTGGTGCCCGCGAGGAGCTGCCACGCCATGCCACCTGCGCTTTTACACG
 GCCCGCCTGGCCCCGGCTCGCCCTATGTTTCTGTGGACATCCGCCGGTTCGGCCGCTGG
 GACCTTGGGGAAAGTGGCAGCCGGGCCGCGGGCCCTGTGTCTTGCAGGAGTACCAGCAG
 TTCAGGGAGAATGTGCTACGAAACCTAGCGGATAAGGCCTTTGACCGGCCATCTGCGAG
 GCCCTCCTGGACCAGAGGTTCTTCAATGGCATTGGCAACTATCTGCGGGCAGAGATCCTG
 TACCGGCTGAAGATCCCCCTTTGAGAAGGCCGCTCGGTCTGGAGGCCCTGCAGCAG
 CACAGGCCGAGCCCGAGCTGACCCTGAGCCAGAAGATAAGGACCAAGCTGCAGAATCCA
 GACCTGCTGGAGCTATGTCACTCAGTGCCAAGGAAGTGGTCCAGTTGGGGGGCAGGGGC
 TACGGGTGAGAGCGGGGAGGAGGACTTTGCTGCCTTTCGAGCCTGGCTGCGTGTCTAT
 GGCATGCCAGGCATGAGTCCCTGCAGGACCGCATGGCCGTACCATCTGGTTCAGGGG
 GATCCTGGACCGTTGGCACCCAAAGGGGCAAGTCCCGCAAAAAGAAATCCAAGGCCACA
 CAGCTGAGTCTGAGGACAGAGTGGAGGACGCTTTGCCTCAAGCAAGGCCCTTCCAGG
 ACACGAAGGGCAAAGAGAGACCTTCTAAGAGGACTGCAACCCAGCGGCCTGAGGGGACC
 AGCCTCCAGCAGGACCCAGAAGCTCCACAGTGCCTAAGAAGGGGAGGAGGAAGGGGCGA
 CAGGCAGCCTCTGGCCACTGCAGACCCCGAAGGTCAAGGCTGACATCCCATCCTTGAA
 CCAGAGGGGACCTCAGCCTTTAGCAGGAGGCTCTCCTTGCTGCACTCACCTTTCTTA
 TTGTCTTGCCCTGCATCTGGGGTCTGAATTTTTGGGAGCAGGCAATATCTGAAGGTGCA
 AACAGGCCCTACGGCTGTCCCTGCACAACCTCTCATGGTTTTAATGTACCCCATCTTCC
 ACATCTTTAAAGCTCATGTGAAAAATGCTGCATTTTTAATAAACTGATACATTTGAAAA
 AAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC010876 unedited
 AGAGTTTATATATTTGTATACGACTCACTATAGGGGCGGCCGATTCCCGGGATATCGT
 CGACCCACGCGTCCGCGACGAGCGGAACGGAGTGC GG GTTCCCGGGGAGGGGGCGTGCAG
 GATCGGGTTGTGGGGGTGCGCTGTAGGGCTAAGGAGAAGATGAGCTTTGGGGGGCCCTG
 AGGAGGAGGGGAGTCAGGATTAACCGAGGACAGGGTCGACGCGGGGCATGGGGGAGGAC
 GGGCCCGAGAGCGCCGCTCCTCCCAAACTAGGATTTGGAGCCTCACGTTCTCCCGCAA
 AACGAGCCCTGTGGGTGCCAGGCCAGGGCGGCTCCAGGTGTGGAGGGGCAAGGTACG
 GGCGTCTGCCGTGCTAAGTGCCCTTCCACTTAAGGCACACCTTCGCCTCCGATTCGG
 AACCGCCCGGGGACAGAGGCAAGTGGCAAAGCAGGGAGGGCGGAGGACTTGCCACCCTC
 CCTCAGGATGCCTGAGGGCCCGAGCTGCACCTGGCCAGCCAGTTTGTGAATGAGGCCTG
 CAGGGCGTGGTGTTCGGCGGCTGCGTGGAGAAGTCTCTGTGAGCCGCAACCCTGAGGT
 GCCCTTTGAGAGCAGTGCCTACCGCATCTCAGCTTCAGCCCGCGCAAGGAGCTGCGCCT
 GATACTGAGCCCTCTGCCTGGGGCCAGCCCAACAGGAGCCACTGGCCCTGGTCTTCCG
 CTTTCGCATGTCCCGCTTTTTACCTGGTGCCTCCNCGAGGAGCTGCCCGCCATGCC
 ACCTGCGCTTTTTAACGGGCCCCGCTGGCCCCGGCTCGCCCTATGTTTCTGGACATT
 CCCCCGTTCCGCGCTGGGACCTTGGGGGAAAAGTGAATCCCGGGCGCGGCCCTGG
 GTCTTGAAAGAAATAA

Restriction Sites: Please inquire

ACCN:	BC010876
Insert Size:	1811 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC010876.1 , AAH10876.1
RefSeq Size:	1811 bp
Locus ID:	79661
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]