

Product datasheet for **SC319567**

NEI3 (NEIL3) (NM_018248) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEI3 (NEIL3) (NM_018248) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEI3
Synonyms:	FGP2; FPG2; hFPG2; hNEI3; NEI3; ZGRF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_018248.1
 GCGCAGCGTTGAGTTGCACAGCGGTATTCTCACCAGGCCCTGCAATCGGTGGGCCACAGT
 GCCGGCCACAGAGATGGTGAAGGACCAGGCTGTACTCTGAATGGAGAGAAGATTCGAGC
 GCGGGTCTCCCGGGCCAGGCGGTGACCGGCGTGCGGGGAAGCGCTCTCGGGAGTCTGCA
 GGGCCGCGCCTTGC GGCTCGCAGCCTCCACGGTTGTGGTCTCCCCGAGGCTGCTGCACT
 GAATAATGATTCAGCCAGAATGCTTTGAGCCTGTTAATGGATATGTTTACAGTGGCGT
 GGAAACTTTGGGAAGGAGCTCTTTATGTACTTTGGACCAAAGCTTTACGGATTCATTT
 CGGAATGAAAGGCTTCATCATGATTAATCCACTTGAGTATAAAATATAAAAATGGAGCTTC
 TCGTGTTTTGGAAAGTGCAGCTCACCAAAGATTTGATTTGTTTCTTTGACTCATCAGTAGA
 ACTCAGAACTCAATGGAAAGCCAACAGAGAATAAGAATGATGAAAGAATTAGATGTATG
 TTCACCTGAATTTAGTTTCTTGAGAGCAGAAAAGTGAAGTTAAAAAACAGAAAGGCCGGAT
 GCTAGGTGATGTCTAATGGATCAGAACGTATTGCCTGGAGTAGGGAACATCATCAAAAA
 TGAAGCTCTCTTGACAGTGGTCTCCACCCAGCTGTTAAAGTTTGTCAATTAACAGATGA
 ACAGATCCATCACCTCATGAAAATGATACGTGATTTGAGCATTCTTTTTACAGGTGCCG
 TAAAGCAGGACTTGTCTCTCTAAACATAAAGTTTACAAGCGTCCCAATTGTGGTCA
 GTGCCACTGCAGAATAACTGTGTGCCGCTTTGGGACAATAACAGAATGACATATTTCTG
 TCCTCACTGTCAAAAAGAAAATCCTCAACATGTTGACATATGCAAGCTACCGACTAGAAA
 TACTATAATCAGTTGGACATCTAGCAGGGTGGATCATGTTATGGACTCCGTGGCTCGGAA
 GTCGGAAGAGCACTGGACCTGTGTGGTGTGACTTTAATCAATAAGCCCTCTTCTAAGGC
 ATGTGATGCTTGCTTGACCTCAAGGCCTATTGATTCAGTGTCAAGAGTGAAGAAAATTC
 TACTGTCTTTAGCCACTTAATGAAGTACCGTGTAACTTTTGGAAAACCTCATACAGA
 AGTCAAGATCAACAGGAAAACCTGATTTGGAAGTACAACCTTTGTCTTGACTGATTTTGA
 CAATAAATCCAGTACTTTGGAAAGAAAACAAAGCAAAACCAAGTACTAGATGAGGAGTT
 TCAAAAACCTCCTCCTGTAGTGTGTTGAATGATATACAGCACCCCTCCAAGAAGAC
 AACAAACGATATAACTCAACTATCCAGCAAAGTAAACATATCACCTACAATCAGTTCAGA
 ATCTAAATTTAGTCCAGCACATAAAAAACCGAAAACAGCCCACTACTCATCACCAGA
 GCTTAAAAGCTGCAACCCTGGATATTCTAACAGTGAACCTCAAATTAATATGACAGATGG
 CCCTCGTACCTTAAATCCTGACAGCCCTCGCTGCAGTAAACACAACCGCCTCTGCATTCT
 CCGAGTTGTGAGGAAGGATGGGAAAACAAGGGCAGGCAGTTTTATGCCTGTCTCTACC
 TAGAGAAGCACAATGTGGATTTTTGAATGGGCAGATTTGCCTTCCCATTCTGCAACCA
 TGGCAAGCGTTCCACCATGAAAACAGTATTGAAGATTGGACCTAACAAATGAAAGATTT
 TTTTGTGTGCTCTTGGGAAGGAAAACAATGCAATTTTTTCCAGTGGGCAGAAAATGG
 GCCAGGAATAAAAATTATTCCTGGATGCTAATATCTGTAGATTCTCTGGCATTAGTCTC
 TTCAAACCTGTGTATAATGTTTGGTCTCCTCTGTTCATAGAAAAGTCATAGAATATGAT
 ACATTGAAAAGTTACTGCAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_018248

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_018248.1 , NP_060718.1
RefSeq Size:	2273 bp
RefSeq ORF:	1818 bp
Locus ID:	55247
UniProt ID:	Q8TAT5
Cytogenetics:	4q34.3
Domains:	Fapy_DNA_glyco, zf-RanBP
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair
Gene Summary:	NEIL3 belongs to a class of DNA glycosylases homologous to the bacterial Fpg/Nei family. These glycosylases initiate the first step in base excision repair by cleaving bases damaged by reactive oxygen species and introducing a DNA strand break via the associated lyase reaction (Bandaru et al., 2002 [PubMed 12509226]).[supplied by OMIM, Mar 2008]