

## Product datasheet for **SC212230**

### NEIL2 (NM\_001135746) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** NEIL2 (NM\_001135746) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** NEIL2  
**Synonyms:** NEH2; NEI2  
**ACCN:** NM\_001135746  
**Insert Size:** 1102 bp  
**Insert Sequence:** >SC212230 3'UTR clone of NM\_001135746  
 The sequence shown below is from the reference sequence of NM\_001135746. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAGGAGCCAGAGCAGTGCCAGTTCTCCTAGGAGCTGGTGGTGTCTCCTCACGGAACCTTGCCGTTGGG
GAACCTGACGTCTAAGTGTCCAGAAAGGAGGATGTGGGCAGGGACGGGTACAGAGGATAGTGTGGGTC
AGAGGTGCCAGTAGTATAATATTCGTCTCCCTGGAGTTATGTTGAAGGCAGAGTTTTTCATAGGGTTAGA
TTTTTTTTATCCTTTTCTAGTTCAGTTAATTCATCCTGTTGAATTGCACCATCGTGAAAGATGGGAAAA
ATCGTGATGATGGGTAAGGGGAAAACTCCCGAAGGCAATGGGGCAAGGAAAAAGAAAGCCTATGGGA
AATGGCTGTGCTCCCAACATAGCTTTGCAGATGATGTGGGTTTTTTTTTTTTTTTTTTGGTTGTTGTTTT
GAGAGAGAGTCTTGCTCTGTCTCCCTGGCTAGGGTGTGGTGGTGTGATCTTGCTCACGGCAGCCTTGC
CCTCCCTGGCTCAAGCAGTCTTCATCTCAGCCTCCAGAGTAGCTGGGACTACAGGCATGTGATATGATG
CTCGGCTGATTTTTGTTTACTTTTTAGAGAGATGGGTCTTGCCATATTTGCCAGGCTGGTTTGAAGTCT
CTACAACCAAGCATTCTCCACCTTGGTCTCCCAAAATGTTGGGACCACGGGTGTGAGCCACCGCGC
CCAGCTAGCTCCTGTGTTTTGTTTTGTTTTGTTAACTTTGGTTGATGTTAAGGCCCTCCATTTGGAAA
GCAGGAAAAACAGGATTTTTTTTTTTTTATCTTGTTCCTGGAGGATCCAGGGATGAGGATAGAGTGGCC
TGAGAGCAGTGTGGATTGAGCCTCCTGCTGGGTCTTCTGCTGGATACAGGCACCAAGAGGCGGTGCG
TGGAGCAGGGAGCTGCGCCTTCTGGGGTGCCCGTGGTGTGAGAGAAAAGCTGCTTGTACTCCTT
AAGTCAATGTATTGGTACTGTTGATTTGTTGAACAATCAGGAATCAAGGGCTGTGGAGAACTCCCT
CATGTTGTTGGCAACAGGTGAATGAACCTAGAGCGGTGACATGAAAATAAAGCTCACTGTTACTCGC
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI



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|------------------------|---|
| <b>OTI Disclaimer:</b> | Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).  |
| <b>Components:</b>     | The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.  |
| <b>RefSeq:</b>         | <a href="#">NM_001135746.3</a>  |
| <b>Summary:</b>        | This gene encodes a member of the Fpg/Nei family of DNA glycosylases. These glycosylases initiate the first step in base excision repair by cleaving oxidatively damaged bases and introducing a DNA strand break via their abasic site lyase activity. This enzyme is primarily associated with DNA repair during transcription and acts preferentially on cytosine-derived lesions, particularly 5-hydroxyuracil and 5-hydroxycytosine. It contains an N-terminal catalytic domain, a hinge region, and a C-terminal DNA-binding domain with helix-two-turn-helix and zinc finger motifs. This enzyme interacts with the X-ray cross complementing factor 1 scaffold protein as part of a multi-protein DNA repair complex. A pseudogene of this gene has been identified. [provided by RefSeq, Mar 2017] |
| <b>Locus ID:</b>       | 252969  |
| <b>MW:</b>             | 41.3  |