

## Product datasheet for **MC214776**

### Neil2 (NM\_201610) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neil2 (NM_201610) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Neil2
Synonyms:	Gm1212; NEH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC214776 representing NM_201610 <b>Red</b> =Cloning site <b>Blue</b> =ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAGAAGGGCCATCTGTGAGGAAGTTTACCATCTTGTCTCCCCCTTGTGGCCAGAAGGTGGTCA  
AGACGGGGGGCAGCAGTAAGAAGCTCCACCCTGCCGCCTTCAGTCTCTGTGGCTCCAGGATGCTCAGGT  
GCATGGAAAAAATTATTCCTTCGGTTTGATCCAGATGAGGAGATGGAGCCACTCAACAGCAGCCCACAG  
CCTATACAGGGAATGTGCAGAAAGAGGCTGTGGACCGAGAGCTGGCCTTGGTCCCAGTCTCAGGAAC  
CCTCTGCAGGTCCCTCTGGATCTGGGGAGCCTGTCCAGTAGATCTGCTGAAACATATAATCTTGGGAA  
GATCCCCCTCAGCAGATGCCAGAGGTGGCTGGAGGTCAGGTTTGGTTTATTTGGCAGTATCTGGGTGAAT  
GACTTCTCCAGAGCAAAGAAAGCTAACAAAAAGGTGACTGGAGAGACCCAGTGCCAGGCTGGTACTCC  
ATTTTAGTGGTGGTGGCTTCTGGTATTTTATAACTGCCAGATGTCATGGAGCCCTCCCCAGTGATTGA  
GCCACCTGTGACATATTGTCTGAAAAGTTCCATCGAGGACAAGCCTTGGAAAGCTCTAAGCCAGGCTCAG  
CCTGTGTGCTACACACTTTGGACCAGAGATACTTCTCAGGATTAGGGAACATCATAAAGAAATGAAGCCT  
TGTACAGAGCAAGGATCCATCCCCTCTCTCGGTTTCATGCTGAGTTCTTCTCTCGGGAGGCCCTCGT  
GGATCACGTGGTGGAGTTCAGTAAGGACTGGCTTCGGGACAAATCCAAGGCAAGGAACGGCACACACAG  
ATCTACCAGAAGGAACAATGTCTTCTGGTCACCAGGTCATGAAGGAGACATTTGGCCCCCAGATGGGC  
TCCAGAGGCTCACCTGGTGGTGCCTCAATGCCAGCCCCAGCTGTCTCCAAGGGGCCCCAGAATCTCCC  
GTCTCTCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja1753\\_e07.zip](https://cdn.origene.com/chromatograms/ja1753_e07.zip)



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_201610
<b>Insert Size:</b>	990 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_201610.2</a> , <a href="#">NP_963904.2</a>
<b>RefSeq Size:</b>	1914 bp
<b>RefSeq ORF:</b>	990 bp
<b>Locus ID:</b>	382913
<b>UniProt ID:</b>	<a href="#">Q6R2P8</a>
<b>Cytogenetics:</b>	14 D1
<b>Gene Summary:</b>	<p>Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Has DNA glycosylase activity towards 5-hydroxyuracil and other oxidized derivatives of cytosine with a preference for mismatched double-stranded DNA (DNA bubbles). Has low or no DNA glycosylase activity towards thymine glycol, 2-hydroxyadenine, hypoxanthine and 8-oxoguanine. Has AP (apurinic/aprimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the removed base with both 3'- and 5'-phosphates (By similarity). [UniProtKB/Swiss-Prot Function]</p>