

## Product datasheet for **MC206718**

### 2410187C16Rik (BC051524) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** 2410187C16Rik (BC051524) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** 2410187C16Rik  
**Synonyms:** 2410187C16Rik; AU014961; AW550036; Ntaq1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC051524  
GGCACGAGGGCGACAATTGCGGCCAGCGGGTTGTTTTAGTTGACCTGTGAGCCACAGCTTCGGGTCATGGA  
GGGGACGGCCCCGCGCCACGGCCCCGACGTACCAGCCGGTCTGTCTACGCGGGACGCATGTGTCTAC  
AACAGCTGCTATTGTGAGGAAAACATTTGGAAGCTCTGTGAGTACATCAAGACACACAACCAGTATCTGT  
TGGAGGAGTGCTATGCAGTCTTCATATCAAAATGAGAAGAAGATGGTACCTATTTGGAAACAGCAGGCAAG  
ACCTGAGAATGGACCTGTGATCTGGGACTACCATGTGGTCTGCTTCATGTGCAAGGGAAGGACAAAGC  
TTCATTTATGATCTTGACACTATTTTGCCATTTCCCTGCCCTTTCGACATTTACATAGAAGATGCCCTTA  
AGTCTGATGATGACATTCATCTGCAGTTTAGGAGGAAATTTAGAGTGGTTCGTGCTGACTCCTACTTGAA  
GCATTCGCTTCTGACCGGTCTCACATGAAAGACTCCAGTGGAACTGGAGAGAGCCTCCCCAGAGTAC  
CCCTGCATTGAACTGGAGACTCCAAAATGAACCTGAACGACTTCATCAGCATGGACCCTGCAGTAGGAT  
GGGAGCTGTCTACACGCTGCCTGAGTTTGTGCATCGGTTTCAGCAGCAAAACCTACCAAGCCTGACATCC  
GGGCTGCAGCTAGAGAAGCTCTAGGGTCTGAGTAAGCCATCCTTCCATTTAAGAGAGAGCGTGGTACAGG  
TGGCCTATAGGGATATTGTTCTCACTAAATGTGAGTGGAAACATTAGTGAACACAGATGAAAATGAATGA  
CTAAGTCCCCACCCCTTTTTTAGGCTGGGGATCTATCCCAGAGTTCTATCTCCAACCTAAACAGTC  
AGACCCAGCCTCAGACATAGATATGCCACATTCGGTATATGGTTGCTAAAATGTTTCCATGGCTTGCTT  
ACTTCGGTGTGTGATGACGTAGGCCAGCAATTGCTTTTGTAAAATAGAGGTGTGGACCTGGAGTCGGCT  
CCTTTTGTCTGCTTCTCTGCTTCTGTCTGGCTAGACTCTAACTCCTTGAGCAGAGTTTGTGGCCTG  
TGGCTCTAAGACTCTGTTGCCATTAGAGGTCCCGGTAATAATGTTTCTAGAGTCAGCACTGCTGCTTGGT  
AAGGGACAGTATTGTGAGCTGAATCAGCTGTAAGTATTAGTCTTTTTGGACTACGATGTTTTAAAAAAGTT  
GCAGATATCTTGTCTGAGTGCTATTTGACCCACTTATATATGTAGTTTTAAATAAAATTGACTTAAATTT  
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** EcoRI-NotI  
**ACCN:** BC051524  
**Insert Size:** 630 bp



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<b>OTI Disclaimer:</b>	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).
<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="#">BC051524</a> , <a href="#">AAH51524</a>
<b>RefSeq Size:</b>	1354 bp
<b>RefSeq ORF:</b>	630 bp
<b>Locus ID:</b>	76773
<b>Cytogenetics:</b>	15
<b>Gene Summary:</b>	Mediates the side-chain deamidation of N-terminal glutamine residues to glutamate, an important step in N-end rule pathway of protein degradation. Conversion of the resulting N-terminal glutamine to glutamate renders the protein susceptible to arginylation, polyubiquitination and degradation as specified by the N-end rule. Does not act on substrates with internal or C-terminal glutamine and does not act on non-glutamine residues in any position. Does not deaminate acetylated N-terminal glutamine. With the exception of proline, all tested second-position residues on substrate peptides do not greatly influence the activity. In contrast, a proline at position 2, virtually abolishes deamidation of N-terminal glutamine. [UniProtKB/Swiss-Prot Function]