

## Product datasheet for **MC224684**

### Ino80 (NM\_026574) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ino80 (NM\_026574) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ino80  
**Synonyms:** 2310079N15Rik; 4632409L19Rik; Inoc1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224684 representing NM\_026574  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCTCGGAGTTGGGTGCCGGGACGATGGCAGCAGCACTGAGCTGGCAAAGCCCTTTATCTTCAGT  
ACCTGGAGAGAGCCTTGGGTTGGACCCTTTCTGCGACAAACATCAGCCATCTTCAACAGGAATATTTCT  
TAGTGATGACAGTGAAGATGGACTGGATGACAATAATCCCTTATTGCCTGAGTCTGGGGATCCCTTAATA  
CAAGTAAAAGAAGAGCCTCCAAATTCATTGCTTGGCGAAACCTCTGGAGCAAGCAGTTCTGGGTTGTGA  
ACCCATATTCAGTGAACGGCCTTCTGCAGTCAGAATCAAAATCTGACAAGGGGAATTTATATAACTTCTC  
TAAGTTGAAGAAAAGCAGAAAGTGGCTAAAGAGCATTCTTTAAGTGATGAGTCCAGTGAGGCAGATTCT  
CAGAGTGAAGACAATGATGATGAAGAAGAAGAACTCAGTCTCAGCAGAGAAGAACTTCACAACATGCTTC  
GATTACACAAATATAAGAACTTCACCAAAATAAATATAGTAAAGATAAGGAGTTGCAGCAGTACCAGTA  
CTACAGTGCAGGCCTGCTCTACATACGACCCCTTCTATGAGCAACAGCGCCACTTGTGGACCCAAA  
AGAAGAAATCAAGGAAGACAAGAAGCTTAAAGCCAAGTTGAAAAAGTGAAGAAAAAAGAAGACGTG  
ATGAAGAGTTTTCTCTGAAGAATCTCCAGTCAACCATCACCAGACCAAGTCTTTGCTAAGTTTTCT  
TCATGATGCACCTCCCCCTGGCACCAAGAAGAACTTATCCATTGAGCAGCTTAATGCCCGCCGAGG  
AAAGTGTGGCTGAGCATCGTGAAGAAAGAACTACCAAGGCAACAAGCAGAAGTCTTCAGCTCGAACT  
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ACAGAAAACTGTAAGGAGACTCTGCCTCGAGCCCGGCGCCTAACAAAAGAGATGCTTCTGTACTGGAAG  
AAGTATGAGAAGGTGGAGAAGGAGCACCGAAGCGAGCAGAGAAGGAAGCTCTGGAGCAGCGCAAGTTGG  
ATGAGGAAATGCGGGAGGCCAAGAGGCAACAACGAAAACCAACTTCTTAATCACTCAGACAGAATTGTA  
TGCTCATTTTATGAGTCGAAAACGTGATATGGGTGATGATGGAATCCAGGAAGAAATCTTAAGGAACTA  
GAAGATAGTTCTACCCAGAGACAAATTGACATTGGTGGAGGAGTGGTGGTTAACATCACCAAGAAGACT  
ATGATAGTAACCATTTTAAAGCCAGGCGCTGAAGAATGCTGAAAATGCTTATCATATTCACCAAGCTCG  
AACAAAGTCAATTTGATGAAGATGAAAAGAAAGTGGGCGAGCTGCCCTTAGGGCAGCAGACAAGTCTGGC  
TCTGGGTTGGGAGAGTTATAGCTTAGCAATCCATCTATCCGGGCCGGTGAGGATATTCGCAACCCA



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CTATTTTCAATGGCAAGTTGAAAGGTTACCAGCTGAAAGGCATGAACTGGTTAGCAAATTTATATGAACA  
GGGTATTAATGGAATCTTGCTGATGAAATGGGTCTTGGTAAAACGTACAGAGCATTGCCCTCCTGGCC  
CATCTGGCTGAGAGAGAAAACATTTGGGGACCTTTCTTAATAATTTACCTGCTTCTACACTTAATAATT  
GGCACCAGGAGTTTACAAGATTTGTTCCATAAATTAAGGTGCTACCATATTGGGGAAATCCTCATGATAG  
AAAAGTTATCCGGAGATTCTGGAGTCAGAAGACCTTATACTCAGGATGCCCTTTTATGTGGTCATC  
ACTAGCTACCAGCTGGTGGTTCAGGATGTCAAGTACTTCCAGCGGGTCAAGTGGCAATACATGGTACTGG  
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TCGACTTTTGTAACTGGAACCCCCATTAGAATACCATGGCAGAGCTCTGGGCTCTGCTACATTTTCATT  
ATGCCAACATTATTTGATTTCGCATGAAGAATTTAATGAATGGTTTTCCAAGACATTGAAAGTCATGCTG  
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AGTCGACAAAAACTCTTATATCAGGCACTAAAGAATAAAAATTTCCATTGAGGACTTACTGCAGTCTTCAA  
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GTGTAATCACCCAGAGTTATTGAAACGGCAAGAAACGTGGTCTCCATTTTCATATTTCTCTAAAGCCATAT  
GAAATTTGCAAGTTTATTTATCGTCATGGACAGATCAGGGTCTTCAACCACTCACGAGATAGGTGGTTGA  
AGGTTCTTCTCTCCGTTTGCACCAGATTATATCCAGCAGTCTCTTCCATAGGAAAGGTATTAAATGA  
AGGAAGCTGTTTTTCTTCTCGATTTATTGATGCTCGCCAGCAGAAATGGCAAACCTCATGCTTCAG  
GGACTTTTGGCCAGGTGGTTAGCTCTTTTCTATCTGAAAACCTCCTACAGGCTCCACCAGCTGCGCT  
CTTGGGCAGAGCCGGATGGGACAAGCCATCAGAGCTATCTGAGAAAACAAGGATTTTCTTCTCGGAGTTGA  
TTTCCACTTTCCCTTCCCTAACCTTTGCAGCTGCCCTTTGTTAAAGTCTCTTGTGTTTTCAGCAGCCACTGT  
AAAGCAGTGAGTGGTACTCAGACCATGTTGTCCATCAGCGGAGATCAGCTACCTCCTCACTTCGTTGCT  
GCCTCCTCACTGAGCTGCCGTCTTTTTGTGTGGCCAGTCCAGGATCACCGAGTCCCGTGGATTC  
TTACTGTAATGACAGAAGTGCAGAGATGAGAGAGGAGTTCTGAAGGAAGGAGGGGATCTGGCTGCCAAG  
CAGTGTGTTGTTGAATGGGGCTCCTGAGCTGGCTACGGATTGGCTGAGTCGAGATCCCAGTTCTTCCCAG  
AGCCAGCTGGAGGGCTGCTGAGCATTAGACCCAGAACGGCTGGTCTTTCATCAGAATTCAGGCAAGGA  
GAGCCTCATCACTGACAGTGGAAAGCTGTATGCCCTTGATGTCCTGTTGACTCGGCTCAAGTCTCAAGGA  
CATAGGGTCTTATCTACTCTCAGATGACCAGAATGATAGACCTGCTGGAGGAATATATGGTATACAGGA  
AGCATACCTACATGAGGCTGGATGGCTCGTCCAAGATCTCAGAGAGACGGGACATGGTGGCTGATTTTCA  
GACCAGGAACGACATCTTTGTGTTTCTGTTAAGCACGCGAGCTGGAGGACTGGGTATCAATCTCACAGCT  
GCAGACACAGTGATTTTCTACGACAGTACTGGAACCCCACTGTAGACCAGCAGGCCATGGATAGGGCCC  
ACCGCTTGGGGCAAAACAAACAGGTCACGTGTACCGGCTTATCTGTAAGGCACAATTGAGGAGCGTAT  
TCTGCAGAGAGCCAAGGAAAAGAGTGAGATTACGCGCATGGTGATTTCTGGTGGGAACCTCAAACAGAT  
ACCTTGAAACCCAAAGAGGTGGTTAGCCTTCTTCTAGATGACGAAGAAGTGGAAAAGAACTGAGACTGC  
GGCAGGAAGAGAAAACGGCAGCAGGAGGAAAAGCAACCGAGTGAAGAACGCAACGCAAGCGGGAGAAGTA  
CGCAGAAAAGAAGAAAAGGAAGATGAGTTGGATGGGAAGAGGAGGAAAAGGGGTGTGAACCTCGTGATC  
CCGTTTGTTCCTCTGCTGACAACCTCAACCTCTCCGCTGATGGGGATGATTCTTTCATCAGTGTGACT  
CAGCCATGCCAGCCCTTTCAGTGAGATCTCAATCAGCAGTGAAGTGCACACTGGCTCTATTTCCCTGTA  
TGAGAGCAGCAGTGACATGTTAGTCATCGTGGATGACCCAGCCTCCTCAGCACCTCAGTCGAGAGCCACC  
AACTCTCCTGCTTCCATAACAGGCTCTGTGTGACACTGTGAATGGAATTTCCATTGAGGAAGTGGCCAG  
CTGCAGGACGTGGTCACTCAGCTCGAAGCCGAGGCCGCCCAAGGGTTCAGGAAGCACAGCCAAAGGAGC  
AGGCAAAAGGCCGAAGCCCAAGTCCACTGCAGGCAAGTGTGCTGCGATGGCAGGACCAAGCAGGGGCT  
GCAGCAGCTTCTGCAGCTGCTTATGCTGCATACGGGTACAATGTGTCTAAAGGAATCTCCGCAAGCAGTC  
CTCTGCAGACATCCATTGTCGACCTGTGGCCTTGCAGACTTTGGACCTTCAAGCGCCTTCTTCCCTT  
AAGTTCCCTCTGAACAAAGGAAATAATATTCTGGGACTCCTAAAAGCCTCCACATGACCAGCAGCCTA  
GCCTCAGACTCCTTGATCCGAAACAGGGCAAAGGCACCAACCCCTCTGGAGGACGGTAA

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_026574

<b>Insert Size:</b>	4680 bp
<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="#">NM_026574.3</a> , <a href="#">NP_080850.2</a>
<b>RefSeq Size:</b>	6296 bp
<b>RefSeq ORF:</b>	4680 bp
<b>Locus ID:</b>	68142
<b>UniProt ID:</b>	<a href="#">Q6ZPV2</a>
<b>Cytogenetics:</b>	2 E5
<b>Gene Summary:</b>	ATPase component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and DNA repair. Binds DNA. As part of the INO80 complex, remodels chromatin by shifting nucleosomes. Regulates transcription upon recruitment by YY1 to YY1-activated genes, where it acts as an essential coactivator. Involved in UV-damage excision DNA repair. The contribution to DNA double-strand break repair appears to be largely indirect through transcriptional regulation. Involved in DNA replication. Required for microtubule assembly during mitosis thereby regulating chromosome segregation cycle.[UniProtKB/Swiss-Prot Function]