

## Product datasheet for **MC225174**

### Nin (NM\_001081453) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nin (NM\_001081453) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nin  
**Synonyms:** 3110068G20Rik; AI385615; AU024711; mKIAA1565  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225174 representing NM\_001081453  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATGAGGTGGAGGAGGACCAGCATGAAGCCCGACTCAAGGAGCTGTTTGACAGTTTTGACACCCTGG  
 GAACTGGGTCTCTGGGTCAAGAGGAGCTCACTGACCTCTGCCACGTGCTGTGCTTGGAGGATGTGGCC  
 GGTGCTGCAACAGACGCTACTCCAGGACAACCTCTTGGCAGGGTACATTTTGACCAATTTAAAGAAGCA  
 TTAATACTTATCTGTCTAGAACTCTATCCAGTGAGGAGCACTTTGAGGAGTCAGACTGTCCCCAGAAG  
 CTCAGCCCAAATATGTTAGAGGTGGGAAGCGTTATGGACGAAGATCACTGCCCGAGTTTCAAGAGTCTGG  
 GGAAGAGATCGAGGAGGTGACAGTGCTTGGCCACTAGAGGAAGAAGCGAGGTCATCACCCATCCCAGCT  
 GGGGACTGCGGCGAGCACTGGAAGACACAACGCAGTGAGGAGTATGAAGCAGAAGGCCAGCTGAGGTTTT  
 GGAACCCAGATGACCTGAATGCTTCACATGGTGGGTCTTGCCCTCCTCCAGACTGGATAGAAGAGAACT  
 GCAAGAGGTTTGTGAAGATCTGGGGATCACTCGAGATGGTCACCTGAACCGGAAGAAGCTGGTTCCATC  
 TGCGAACAGTATGGATTACAGAATGTGGATGGAGCGATGCTGGAAGAGGTGTTTCTCAGCCTTGATCCTG  
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 GCAACCTCGTCAGCAATGACGAGTACCATTGGCTTCCGGTCTTCTCCTGCTTGGATGACGGGATGGCC  
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 TTGGTTACCAAGAATGTCATTACCAGGCAGCACTAGCTAGCTTCAAGGCCGAGATCCGGCACTTGTAG  
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 TTACATCCGGGACCGCTTGCCTCTCCCTGAAGGAAAACAATCGCCTGGAGACTGAGCTTCTGAAAAAC  
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AAAAGTTTGGTGACCTCGATCCCAGCAGTGCTGAGTTCTTTCTTCAAGAGGAGAGGCTGGCGCAGATGAG  
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 GTGGTGGTATTGAGCCCGACCAAGGGCTGGATCTGAGAGTGAACCCCTGAATATGAGCATTGAGGC  
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 GGTGATCTCGTCTGTTTGGAGGAGGGGAGCTCTGAGATTTTGGAAAGTCCAGGGAACAAGTAGAACCC  
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 ACAAGAAACCCAGTGTGTGAGCAGGGAAGCAGCAAGCTCCTAGCTAGAATAAAAGCACACGAAATCGCC  
 TGGTTCCACAGAGCAATTAAGACACATCCGAAAAGCCTAGCGCGCAGAACCGAGTCAATCCCGAGGGGAA  
 GTGCTGCTCTCCTAGGCCTACAAGACAAGCATCTTCAAGCAGGAGGCCACCATCGCAGAGTTAGAAGTGA  
 GAAGCAAAAGCTACAGGAGCTGACTAGAAATCTGAGGGAGCGAGTCACTGCACTAGTTAGGCAAAAAGAC  
 GCCCTTCTCAAGGGCAGAAGGAGGAGGAGCTGAAGGCAATGATGCAGGACCTGCAGATCACGTGCGGGG  
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 AAATGAAATTAATACTTTAAATGAAGAAGATAGCATCTCTAACCTGAAATGGAGGAATTAATGGCTCT  
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 AATTAAGAAACAGGTTTCAGATTTAAAATCAAAAACCAACAGTTGGATTGAGAAAATATAGAAGTCA  
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 AGGGAGGAGCCAGGAGCTTGACCTCTGAGAAAATGGGAACAAGAAAATGCAAGCCTCAAAGAAGAACTGG  
 ATCACTACAAAAGTGCAGACTTCCACTTTGGTGTCTTCTTGGAGGCGAAGCTTCCGAAAGTTAAACTGCA  
 GACTCACGTATGGAGCAGGAAAACCTCCTTCTCAAAGATGAACTGGAGAGACTGAAGCAACTGCACAGA  
 TGTCTGACCTCTGACTTCCAGCAAAAAATGTCTAGCATTCTAAGCTACAATGAAAAGTCTGTAAGG  
 AAAAAGAAGTTCTGAGTGAAGAGTTAAAGAGCTGTGCAGATAAGCTGGCAGAGTCAAGCCTCTTAGAGCA

CAGAATTGCTACAATGAAGCAGGAGCAGACCGCCTGGGAAGAGCAGAGTGAGAGCCTGAAGTCACAGCTG  
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TTGAATCAGATCTCCAAGTGACTCGACAGGAAAAGGAGGCGCTAAAGCAGGAAGTGATGTCATTACACAG  
ACAGCTTCAGAAATGCCATTGATAAAGACTGGGTCTCGGAAACAGCTCCCCATCTCTCAGGGCTCCGGGGC  
CAGCAGAGAAGGCTGTCTGGGACAACTGGACCATCTGATGAATGAGGAACCACAGCTGCTTTGTCAAG  
AAAGCAAGAGACTCCAGACTGTGGTACAGAATACCCAAGCAGATCTCACCCTCCCGGGAGAAGGTCCG  
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ACAGAACAAGAAAACTGACCTTAAAGAGAGAGTGTGAACAGTCTCAGAAAGAACAATCTCTACCAGCA  
GGAAGGTGGGTGAGATGGGTTCCCTTGAGCGAGGATTAGAAACAATCCATTTGAAAAACGAAGTCTGAA  
GAAGAAACAGATGCAGCCCTGAGGTCCACTGTGACGCGTAGCCCATCTCTCACTGGGACTGCAGTTG  
CTCCAGCAGCAAGCCTGTCCGATGGTGCCAGGGAGCAGTTTCTGCAGCTTCAACAGCAGCTGCTGCAGG  
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AAACCAGGAACACCTTGTAAATCTCATGGAAGAACGAATGATAGAAGTTGAACAAAACTAAAGCTGGT  
AAGAGACTTCTTCAAGAAAAAGTAAACCAGCTCAAAGAACAACCTGCAAGAACAAAAACAGATGCCG  
TGGTGAAGGATTGTATGTCGAAAAATGCCAGTTGTTGAAAGCTCTGGAGATGACTGAACAGCGCCAGAA  
GACAGCAGAAAAGAGAAATTTCTCCTAGAAAGAGAAGATTGCCAGCCTCAGTACCATCGTCAGGAACCTG  
GCACCAGCACCCTGACTTCTATGCCTCTCTGAGGTCA**TAG**

AC**CGCGCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA  
TTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-NotI
- ACCN:** NM\_001081453
- Insert Size:** 6342 bp
- 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).
- 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:**
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\\_001081453.1](#), [NP\\_001074922.1](#)
- RefSeq Size:** 9675 bp
- RefSeq ORF:** 6342 bp
- Locus ID:** 18080
- UniProt ID:** [Q61043](#)
- Cytogenetics:** 12 C2

**Gene Summary:**

Centrosomal protein required for the positioning and anchorage of the microtubule minus-end in epithelial cells (PubMed:15784680, PubMed:10934040). May also act as a centrosome maturation factor (By similarity). May play a role in microtubule nucleation, by recruiting the gamma-tubulin ring complex to the centrosome (PubMed:15784680). Overexpression does not perturb nucleation or elongation of microtubules but suppresses release of microtubules (By similarity). Required for centriole organization and microtubule anchoring at the mother centriole (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) lacks an in-frame internal segment and the 3' terminal exon but includes an alternate 3' terminal sequence, compared to variant 2. The resulting isoform (1) is the longest; it lacks an internal segment and has a longer and distinct C-terminus, compared to isoform 2.