

Product datasheet for **MC222766**

Intu (NM_175515) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Intu (NM_175515) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Intu
Synonyms:	9230116I04Rik; 9430087H23Rik; mKIAA1284; Pdzd6; Pdzk6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222766 representing NM_175515
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCCTTGCAGGGGAGACTCGCGTGGGCGCCCGCCGAGCTCCCTGGAGACCTGTCTCACAGG
 AAGAGGAAGAGGAGGAAGGCGACTCCGACGCGCGGGCCAGCAGCTTGGGCTCCTACTCCTCAGCCAGCAG
 TGACACTGATGTGGAGCCTGAGTGGCTGGACAGTGTGCAGAAGAACGGAGAACTGTTCTACTGGAGCTG
 AGTGAGGACGAGGAGGAGAGCCTCCTCCGGAGACCCAGACAGCGAACCCAGTGAACCACGTGAGGTTCA
 GCGACAAGGAGGTCATCATCGAAGAGGACGATTCCAGAGAGAGGAAGAAGTCCGAGCCCAAGCTCAGGCG
 CTTACCAAGATCTTGAAAAGCAAAAGCCTTTTACCCAGGCGTACCACAAAAAGAGCAGCAGCAACAAT
 GGGCCCGTGTCCATTCTGAAACATCAGTCTCCAGAAGACGGGAGTACCCTGCAGCAGCGGTACAAGG
 ATGTGACCGTCTACATCAACCCAGAAAGCTGACGGCCATCAAGGCCAGGGAGCAGGTCAAACCTCTGGA
 AGTACTGGTGGGATCATCCATCAGACCAAGAGGAGCTGAAAAGGAGCGGAAGCAGGCAGACGGAGAG
 AGGCTCGTGGTGCATGGCCTGTTGCCAGGAGGCTCGGCTATGAAGAGCGGTACAGTCTGGTTGGCGATG
 TCCTTGTGTGTGAATGATGTAGATGTGACTTCTGAAAACATAGAAAGATTCTGTCTGCATCCCTGG
 GCCAATGCAGGTGAAGCTGACATTTGAAAACGCATATGCTGTGAAACGGGAAACAGCTCAACCCAAAAG
 AAAAAGGCACAGTCGAGCACCCAAGATTTGGTGAACCTCTGCGGGTCAGAGGCTGATGCTGTCCAGC
 ACAGTACCCTGAGCATCCACACATCTCCATGTACCTCACACTGCAGTCCAGTCAAGGCGAGCCAGGGA
 GGAGCAGGAAATCTTTACCATTATCCAGTGTCTGAAGCATCTCAGAACTCAAGAGCGTGAAGGGGATT
 TTTCTCACGCTCTGTGACATGCTGAAAAGCGTAACGGGGACACAAGTCACTAGCTCATCCCTCCATCTAA
 ATGGGAAACAAATTCATGTTGCTTACTTGAAGAGTCTGACAAGTTGCTGTTAATTGGCCTGCCTGCTGA
 AGAAGTTCTCTCTCAGTTAAGGAACATGATAGAAGATGTGGCCCAACCCCTAAAGTTTCATGTATGGT
 TCTTTAGACAGCCCTTCTGCCAGGTTGAGAACGCACCTCGTCTGGATCATTTCTTCAGTTTGTCTTCG
 AACGAGCTCTTCGGCCCGCAAGTTGCATCTCAGCGGCAGCCCGAGCGCCAGCAGTATGCCGAGCCAG
 TGCCGTGCTTTTGGACAATCTCCCGGAGTCCGTTGGCTCGTGTCTCCACAGGAACTCAAGGTGAACTG
 GACACAGCACTGAGTACCTTGGAGCCGCTGACTTCAAGAACTGTCTGAGGATTATTATGACATGAGAC
 GGCTGTATACAATTTGGGTTCTTCTGTGTTTACAAGGTTACATGGTGTGCAGCCATCTGCCTAAGGA
 TGATGTTATTGAGATCGCTGCATACTGTCGCCAGCACTGCCTGCTGCCTTATGACAGAAAGCAAAGGATT
 GGCCAGCTGATAATATGGAGAGAGGTGTTCCCAAGACACCACCTCCAGCCCTTCAGACTCAGACCCCG
 AGGCCTTCAGGAACCTGAAGGGAGATATTTCTACTAGTTGTCCGATTGCGACATTATTTGTTGTGCGT
 GCTGTTAGAAGCTGGAGGCTGTGCATCTAAGCTACTGGGAACCCCTGGTCCCGATTGTATCTATGTAGAT
 CAGGTCAGAGCGACCCCTTCATCAGCTGGAAGGAGTAGACTCCCGCATAGAGGAACAGCTAGCCACATCCC
 CGGGGCCCTGCTTGTCTTGTGCTGACTGGTTCCCTGCTGCTCCACGTGAAAAGGCAGATAGTTTGACTAC
 TTCACCTATCCTCAGTCGGCTGCAGGGGCTTCCAAAACAGCAGCCTCTCCAACATGCAGGAGAACCTTT
 TTCAGTACTATTCCTTCAAGGCACGGAAGCCAGTCCCTCCAGGATCGGTGGAGGACGTGAACCCACTG
 AAGGGGAAGAAAGTGTGGTCTGAGCCACATGCTACCCAGATGCAGTACGGAAGCAAAGAGAATCCGA
 AGGCTCGGACGACAATGTGGCCTTGCTTAAGCTTGTAGAAAGAAGTCAACACTTCCAAATCCGTTTCTAT
 TTGGGAACCTTCGAAAAAAGAACTTTCAGAAAAAGAGTTGGAAGTCTATGACATAATGAAATTGACCTCCG
 GTCCTGAGAATACACTCTTCCACTATGTTGCCCTTGGAAACAGTGAAGGCATCTTCATCACCCCCACCA
 TGAAGAGGTGGCTCAGCTAGGTGGTTCGTTCACTCTCAACTGATAAAGAATTTCCATCAATGTTGTCTC
 TCTATCCGTGCATTTTCCAGCAGACGCTGAAGGAAGAGAAAAAGAAAGCGCTAAGTGTGGAGAGCATT
 CGGAGCCTACAAATTCAGTGTCTTCTGAGCCCTGTGAAAGAACATGGTGTGCTGTTTGAATGCTCACC
 TGAAAACCTGGACTGATCAGAAAAAGACTCCACCAGTATGTCATACTGGGTAGTAGGGCGCTCTTTCTT
 AACCCAAAACCTCAGGAATATATGCTGTTTTACGACTCAGTCTCAGAAATTGCCATTGAAATGGCAT
 TTAATTGTTCTTGGGTTAACGTT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:	NM_175515
Insert Size:	2829 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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_175515.5</u> , <u>NP_780724.3</u>
RefSeq Size:	6387 bp
RefSeq ORF:	2829 bp
Locus ID:	380614
UniProt ID:	<u>Q059U7</u>
Cytogenetics:	3 B
Gene Summary:	Plays a key role in ciliogenesis and embryonic development. Regulator of cilia formation by controlling the organization of the apical actin cytoskeleton and the positioning of the basal bodies at the apical cell surface, which in turn is essential for the normal orientation of elongating ciliary microtubules. Plays a key role in definition of cell polarity via its role in ciliogenesis but not via conversion extension. Has an indirect effect on hedgehog signaling (PubMed:20067783, PubMed:21761479). Proposed to function as core component of the CPLANE (ciliogenesis and planar polarity effectors) complex involved in the recruitment of peripheral IFT-A proteins to basal bodies (By similarity).[UniProtKB/Swiss-Prot Function]