

Product datasheet for **MR223978**

Intu (NM_175515) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Intu (NM_175515) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide
Sequence:**

>MR223978 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGGGCCTTGCGAGGGGAGACTCGCGTGGGCGCCCGCCGAGCTCCCTGGAGACCTGTCTCACAGG
 AAGAGGAAGAGGAGGAAGGCGACTCCGACGCGGGGCCAGCAGCTTGGGCTCCTACTCCTCAGCCAGCAG
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 GCGACAAGGAGGTCAATCGAAGAGGACGATTCCAGAGAGAGGAAGAAGTCCGAGCCCCAAGCTCAGGCG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR223978 protein sequence
Red=Cloning site Green=Tags(s)

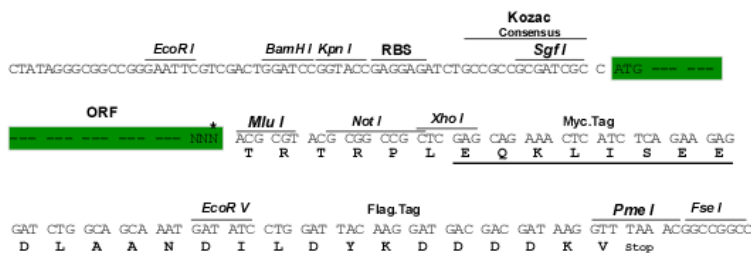
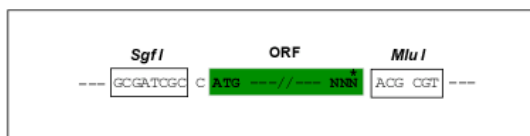
MAGLARGDSRGRPELPGDLSQEEEEEEGSDAGASSLGSYSSASSDSDTVEPEWLDVQKNGELFYLEL
SEDEEESLLPETQTANHVNHRVFSDEKVIIEEDDSRERKKSEPKLRRTFKILKSKSLLPRRHHKSSNN
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RLVHGLLPGGSAMKSGQVLVDGVLVAVNDVDVTSENIERVLSCIPGPMQVKLTFENAYAVKRETAQFPQK
KKAQSSTQDLVKLLCGSEADAVQHSTLSIPHISMYLTLQLQSEAAAREEQEILYHPVSEASQKLKSVRGI
FLTLCMLESVTGTQVTSSSLHLNGKQTHVAYLKESDKLLLIGLPAEEVPLPQLRNMIEDVAQTLKFMYG
SLDSAFQCQVENAPRLDHFFSLFFERALRPGKHLHSGSPSAQQYAAASAVLLDNLPGVRWLVL PQELKVEL
DTALSDLEAADFEELSEDYDMRRLYITLGSSLFYKGYMVCSHLPKDDVIEIAAYCRQHCLLPLAAKQRI
GQLIIWREVFPRHHLQPPSDSDPEAFQEPEGRYFLLVGLRHYYLLCVLLEAGGCASKATGNPDPDCIYVD
QVRATLHQLEGVDSRIEEQLATSPGPCLSCADWFLAAPREKADSLTTPSILSRLQGPSKTAASPTCRRTF
FSDYSFKARKPSPSRIGGGREPTGEESAGLSPHATPDVARKQRESEGSDDNVALLKLARKKSTLPNPFH
LGTSKKELSEKELVYDIMKL TSGPENTLFHYVALETVQGI FITPTHEEVAQLGGSVHSQLIKFNHQCL
SIRAFFQTLKEEKKKALSDGEHSPTNSVYSLSPVKEHGVLFECSPENWTDQKKTPPVMSYWVVGRLFL
NPKPOELYVCFHDSVSEIAIEMAFLFFGLTL

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



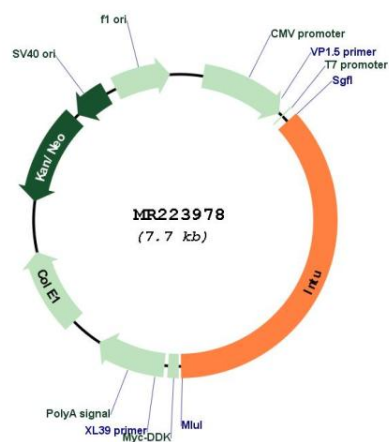
* The last codon before the Stop codon of the ORF

ACCN: NM_175515

ORF Size: 2826 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_175515.5 , NP_780724.3
RefSeq Size:	6387 bp
RefSeq ORF:	2829 bp
Locus ID:	380614
UniProt ID:	Q059U7
Cytogenetics:	3 B
MW:	104.8 kDa
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]

Product images:



Circular map for MR223978