

Product datasheet for **RN201377**

Ik (NM_001005537) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ik (NM_001005537) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ik
Synonyms:	CSA2; RED
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN201377 representing NM_001005537
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGGAGCGAGATAGTGAGCCCTTCTCTAACCCCTTGGCCCCAGATGGCCACGATGTGGATGATCCTC
 ATTCTTTCCACCAATCAAACCTTACCAATGAAGACTTCAGGAACTTCTTATGACCCCAAGAGCTGCACC
 TACTTCTGCACCACCTTCTAAGTCACGTACCATGAGATGCCAAGAGAGTACAATGAGGATGAAGACCCA
 GCTGCACGGAGGAGGAAGAAGAAAAGTTATTATGCCAAGCTTCGCCAGCAAGAAATTGAGAGAGAGAGAG
 AACTCGCAGAGAAATACCGGGACCGTGCCAAGGAACGGAGAGATGGTGTGAACAAAGATTATGAGGAAAC
 TGAGCTGATTAGTACAACAGCCAACTACAGGGCCGTGGGCCCACTGCTGAGGCGGACAAATCAGCAGCA
 GAGAAGAGAAGACAATTGATTCAAGGAGTCTAAATCTTGGGTGGTATGGAACACACCCATTTGGTGA
 AAGTTTTGGATTTGCATTGCTTCAAAGGTGCGAGCTGAGATTGCCAGCAAAGAGAAGGAGGAAGAGGA
 ACTCATGAAAAGCCCCAAAAGGAAACCAAGAAAGATGAGGATCCTGAGAACAAAATTGAATTCAAAAC
 CGGCTTGGTCGAAATGTGTATCGGATGCTTTTCAAGAGTAAATCTTATGAGCGAAATGAGCTGTTCTTAC
 CAGGCCGGATGGCTACGTGGTGGACCTGGATGATGAGTATGCAGATACGGATATCCCTACTACTCTTAT
 CCGCAGCAAAGCTGATTGCCCCACCATGGAGGCCAGACTACACTGACTACAAATGACATTGTTATTAGC
 AAGCTCACCCAGATTTTGTATATCTGAGGCAGGGGACCCGAAACAAGAAGCTCAAGAAGAAAGATAAAG
 GAAAACCTGGAAGAAAAGAAACCTCCTGAGGCTGACATGAACATTTTTGAAGACATCGGGGATTATGTTCC
 TTCCACAACCAAGACACCTCGGGACAAGGAGCGTGAGAGATACCGGGAACGTGAACGTGATCGGGAAAGG
 GACAGAGACAGGGAGAGAGATCGGGAGCGAGACCGTGAGAGGGAGAGAGCGGAGACCGGGAACGTGAAC
 GAGAGGAGGAAAAGAAAAGGCACAGCTACTTTGAGAAGCCAAAAGTGGATGATGAGCCCATGGATGTTGA
 CAAAGGACCTGGATCTGCAAAAGAATTGATCAAGTCCATAAATGAAAAATTTGCTGGGTCTGCCGGTTGG
 GAAGGCACTGAATCGCTGAAGAAGCCAGAAGATAAGAAGCAGCTGGGTGATTTCTTTGGCATGTCCAACA
 GTTACGCAGAATGCTATCCAGCCACGATGGATGACATGGCTGTAGATAGTATGATGAAGAAGTAGATTATAG
 CAAAATGGATCAGGGTAACAAGAAGGGCCCTTAGGCCGCTGGGATTTTGATACTCAGGAGGAGTACAGC
 GAGTATATGAACAACAAGGAGGCTTTGCCAAGGCTGCATTCCAGTATGGCATCAAGATGTCTGAAGGAC
 GGGAAAACAGGCGCTTCAAAGAAACCAATGATAAGGCAGAGCTTGATCGACAGTGAAGAAAATAAGTGC
 GATCATCGAGAAGAGGAAGAAGTGAAGCTGACGGGTTGAAGTGAAGAACCAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001005537

Insert Size: 1674 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_001005537.1](#), [NP_001005537.1](#)

RefSeq Size: 2032 bp

RefSeq ORF: 1674 bp

Locus ID: 291659

UniProt ID: [Q66HG8](#)

Cytogenetics: 18p11

Gene Summary: Involved in pre-mRNA splicing as a component of the spliceosome. Auxiliary spliceosomal protein that regulates selection of alternative splice sites in a small set of target pre-mRNA species. Required for normal mitotic cell cycle progression. Recruits MAD1L1 and MAD2L1 to kinetochores, and is required to trigger the spindle assembly checkpoint. Required for normal accumulation of SMU1.[UniProtKB/Swiss-Prot Function]