

Product datasheet for **MG208827**

Ik (NM_011879) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ik (NM_011879) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ik
Synonyms:	MuRED
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208827 representing NM_011879
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGAACGAGATAGTGAGCCCTTCTCTAACCTTTGGCTCCAGATGGCCACGATGTGGATGATCCTC
 ATTCTTCCACCAATCAAACTTACCAATGAAGACTTCAGGAACTTCTTATGACCCCAAGAGCTGCACC
 TACTTCTGCGCCACCTTCTAAGTCACGTACCATGAGATGCCAAGGGAGTACAATGAGGATGAAGACCCA
 GCTGCACGAAGGAGGAAAAAAGAAAGTTATTATGCCAAGCTTCGCCAGCAAGAAATTGAGAGAGAGAGAG
 AACTCGCAGAGAAATACCGGGACCGTCCAAGGAACGGAGAGATGGTGTGAACAAAGACTATGAGGAAAC
 TGAGCTGATAAGTACCACAGCCAACTACAGGGCTGTGGGCCCACTGCTGAGGCGGACAAATCAGCAGCA
 GAGAAGAGAAGACAGTTGATTCCAGGAGTCCAAATCTTGGGTGGTATGGAACACACCCATTTGGTGA
 AAGTTTTGGATTTGCGTTGCTTCAAAGGTGCGCGCTGAGATTGCCAGCAAAGAGAAGGAGGAAGAGGA
 ACTCATGAAAAGCCCCAAAAGGAAACCAAGAAAGATGAGGATCCTGAGAACAAAATTGAATTTAAAACA
 CGCCTTGCCCGAATGTGTATCGGATGCTTTTCAAGAGTAAATCATATGAGCGAAATGAGCTGTTCTTAC
 CAGGACGTATGGCCTATGTAGTAGACCTGGATGATGAGTACGCAGACACAGATATCCCCACCACTCTCAT
 ACGCAGCAAAGCTGATTGCCCACTATGGAGGCCAGACTACACTGACTACAAATGACATTGTTATTAGC
 AAGCTCACCCAGATTTTGTACACTGAGGCAGGGGACCCGAAACAAGAAGCTCAAGAAGAAGGATAAAG
 GAAAACCTGGAAGAGAAGAAACCTCTGAGGCTGACATGAACATTTTTGAAGACATTGGGGATTACGTTCC
 TTCTACAACCAAGACACCTCGGGACAAGGAACGTGAGAGATACCGGAACGTGAACGTGATCGGGAACGG
 GACAGAGACAGGGAGCGAGACAGGGAGCGAGACCGTGAAGGGAGAGAGAGCGGAGACCGGGAACGGGAAC
 GAGAGGAGGAAAAAAGAAAGGCACAGCTACTTTGAGAAGCCAAAAGTGGATGATGAGCCCATGGATGTTGA
 CAAAGGACCTGGATCTGCAAAAGAGTTGATCAAGTCCATCAATGAAAAATTCGCTGGGTCTGCTGGCTGG
 GAAGGCACTGAATCGTTGAAGAAGCCAGAAGATAAGAAGCAGCTGGGCGATTTCTTTGGCATGTCCAACA
 GTTACGCAGAATGCTATCCAGCCACGATGGATGACATGGCTGTAGATAGTATGATGAAGAGGTAGATTATAG
 CAAAATGGACCAGGGTAACAAGAAGGGTCCCTTAGGCCGCTGGGACTTCGATACTCAGGAGGAATACAGC
 GAGTACATGAACAACAAGGAGGCTCTGCCCAAGGCTGCATTCCAGTATGGCATCAAGATGTCTGAAGGAC
 GGGAAAACAGACGATTCAAAGAAACCAATGATAAGGCAGAGCTTATCGACAGTGAAGAAAATAAGTGC
 AATCATTGAGAAGAGGAAGAGGATGGAAGCAGATGGGGTCAAGTAAAAAGACCAAAAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208827 representing NM_011879
 Red=Cloning site Green=Tags(s)

MPERDSEPFNPLAPDGHVDDPHSFHQSKLTNEDFRKLLMTPRAAPTSAAPSKSRHHEMPREYNEDEDP
 AARRRKKKSYAKLRQOEIERERELAKEYRDRAKERRDGVNKDYETELISTTANYRAVGPTAEADKSAA
 EKRRQLIQESKFLGGDMEHTLVKGLDFALLQKVRAEIASKEKEEEELEMEKPQKTKKDEDPENKIEFKT
 RLGRNVYRMLFKSKSYERNELFLPGRMAYVVDLDEYADTDIPTTLIRSKADCPTMEAQTTLTNDIVIS
 KLTQILSYLRQGTNRNKKLKKDKGKLEEKPPPEADMNIFEDIGDYVPSTTKTPRDKERERYRERDRER
 DRDRERDRERDREREREREKRRHSYFEKPKVDDEPMDVDKPGSAKELIKSINEKFAGSAGW
 EGTESLKKPEDKKQLGDFFGMSNSYAECYPATMDDMAVDSDEEVDYSKMDQGNKKGPLGRWDFDTQEEYS
 EYMNKEALPKAAFQYGIKMSGRKTRRFKETNDKAELDRQWKKISAIIEKRKRMEADGVEVKRPKY

TRTRPLE - GFP Tag - V

Restriction Sites:

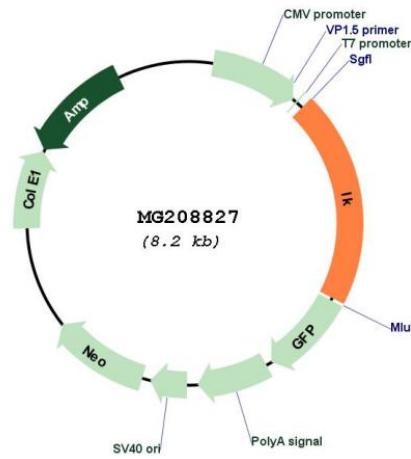
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_011879
ORF Size:	1671 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:	<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.
RefSeq:	NM_011879.2
RefSeq Size:	1965 bp
RefSeq ORF:	1674 bp
Locus ID:	24010
UniProt ID:	Q9Z1M8
Cytogenetics:	18 B2
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]