

Product datasheet for MC218055

A930037G23Rik (BC057601) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A930037G23Rik (BC057601) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	A930037G23Rik
Synonyms:	4733401N06Rik; A930037G23Rik; HOM-TES-103; Iffo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC057601 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGCACCATCTGGTCTCTCACGCCCGCGGCTTGGACCAGGACTGGAACCCACGCTGGTGC
AAGGGCTGGCCTGTCGTGGGTACACCCGTACGGGGTGGGCGTCCAGATCGACACCATCACCCCTGAGAT
CCGTGCCCTGTACAACGTGCTGGCCAAAGTGAAGCGGGAGCGGGACGAGTACAAGCGAAGGTGGGAAGAG
GAATACACGGTTCGATACAGCTACAAGAGCGAGTGACTGAGCTCCAGGAGGAGGCCAAGAGGCCGATG
CCTGCCAAGAGGAGCTAGCCATGAAGGTTGAGCAGCTGAAGGCAGAGCTGGTGGTCTTCAAGGGGCTCAT
GAGTAATAATCTGACAGAGCTGGACACCAAGATCCAGGAAAAGGCCATGAAAGTCGACATGGACATCTGC
CGCCGATTGACATCACGGCCAAGCTCTGTGACTTGGCCAGCAGCGCAACTGTGAGGATATGATCCAGA
TGTTCCAGAAGCTGGTCCCGTCCATGGGGGGCGGAAGCGGGAGCGCAAGGCTGTGTGGAGGAGGACAC
CTCCCTGTCCGAGAGTGATGGGCCCCGCCAGCCTGAGGGTGCCGAGGAGGAGACACAGCCCTCAGCATC
AACGAGGAGATGCAGCGCATGCTCAGCCAGCTGAGGGAGTATGATTTGAGGACGACTGTGACAGCCTGA
CTTGGGAGGAGACTGAGGAGACCTTGCTACTTTGGGAGGATTTCTCAGGCTATGCCATGGCAGCCGAGA
GGCCAGGAGAGCAGCAGGAGGACAGCCTGGAGAAGGTGATCAAAGACACGGAGTCCCTGTTCAAACC
CGGGAGAAGGAGTACCAGGAGACCATTGACCAGATAGAGCTGGAGCTGGCCACAGCCAAGAACGACATGA
ACCGACACCTGCATGAGTACATGGAGATGTGCAGCATGAAGCGGGCCTGGACGTGCAGATGGAGACCTG
CCGCCGGCTCATCACACAGTCCGGGGACCGAAAGTCTCCTGCTTTCACTGCGGTCCCGCTTAGCGACCCG
CCGCCACCGCGAGTGAGACTGAGGACTCCGATCGAGACGTCTCATCTGATAGCTCCATGAGATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI



[View online »](#)

ACCN:	BC057601
Insert Size:	1116 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.
RefSeq:	BC057601 , AAH57601
RefSeq Size:	2304 bp
RefSeq ORF:	1115 bp
Locus ID:	320678
Cytogenetics:	6 F2
Gene Summary:	Nuclear matrix protein involved in the immobilization of broken DNA ends and the suppression of chromosome translocation during DNA double-strand breaks (DSBs) (PubMed:31548606). Interacts with the nuclear lamina component LMNA, resulting in the formation of a nucleoskeleton that will relocalize to the DSB sites in a XRCC4-dependent manner and promote the immobilization of the broken ends, thereby preventing chromosome translocation (PubMed:31548606). Acts as a scaffold that allows the DNA repair protein XRCC4 and LMNA to assemble into a complex at the DSB sites (PubMed:31548606). [UniProtKB/Swiss-Prot Function]