

Product datasheet for MR205725

A930037G23Rik (BC057601) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A930037G23Rik (BC057601) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	A930037G23Rik
Synonyms:	4733401N06Rik; A930037G23Rik; HOM-TES-103; Iffo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205725 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGCACCATCTGGTCTCTCACGCCCGCGGCTTGGACCAGGACTGGAACCCACGCTGGTGC
AAGGGCTGGCCTGTCGTGGGTACACCCGACGGGGTGGGCGTCCAGATCGACACCATCACCCCTGAGAT
CCGTGCCCTGTACAACGTGCTGGCCAAAGTGAAGCGGGAGCGGGACGAGTACAAGCGAAGGTGGGAAGAG
GAATACACGGTTCGATACAGCTACAAGAGCGAGTGACTGAGCTCCAGGAGGAGGCCAAGAGGCCGATG
CCTGCCAAGAGGAGCTAGCCATGAAGGTTGAGCAGCTGAAGGCAGAGCTGGTGGTCTTCAAGGGGCTCAT
GAGTAATAATCTGACAGAGCTGGACACCAAGATCCAGGAAAAGGCCATGAAAGTCGACATGGACATCTGC
CGCCGATTGACATCACGGCCAAGCTCTGTGACTTGGCCAGCAGCGCAACTGTGAGGATATGATCCAGA
TGTTCCAGAAGCTGGTCCCGTCCATGGGGGGCGGAAGCGGGAGCGCAAGGCTGTGTGGAGGAGGACAC
CTCCCTGTCCGAGAGTGATGGGCCCCGCCAGCCTGAGGGTGCCGAGGAGGAGACAGCCCTCAGCATC
AACGAGGAGATGCAGCGCATGCTCAGCCAGCTGAGGGAGTATGATTTTGGAGGAGCTGTGACAGCCTGA
CTTGGGAGGAGACTGAGGAGACCTTGCTACTTTGGGAGGATTTCTCAGGCTATGCCATGGCAGCCGAGA
GGCCAGGAGAGCAGCAGGAGGACAGCCTGGAGAAGGTGATCAAAGACCGGAGTCCCTGTTCAAACC
CGGGAGAAGGAGTACCAGGAGACCATTGACCAGATAGAGCTGGAGCTGGCCACAGCCAAGAACGACATGA
ACCGACACCTGCATGAGTACATGGAGATGTGCAGCATGAAGCGGGCCTGGACGTGCAGATGGAGACCTG
CCGCCGGCTCATCACACAGTCCGGGGACCGAAAGTCTCCTGCTTTCACTGCGGTCCCGCTTAGCGACCCG
CCGCCACCGCGAGTGAGACTGAGGACTCCGATCGAGACGTCTCATCTGATAGCTCCATGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205725 protein sequence
Red=Cloning site Green=Tags(s)

MPGTIWSFSHARRLGPGLPTLVQGPGLSWVHPDGVGVQIDTITPEIRALYNVLAKVKRERDEYKRRWEE
 EYTVRIQLQERVTELQEEAQEADACQEELAMKVEQLKAELVVFKGLMSNNL TELDTKIQEKAMKVMDIC
 RRIDITAKLCDLAQQRNCEDMIQMFQKLVPSMGRKRERKAAVEEDTSLSESDGPRQPEGAEESTALSI
 NEEMQRMLSQLREYDFEDDCDSL TWEETEETLLLWEDFSGYAMAAEAQGEQQEDSLEKVIKDTESLFKT
 REKEYQETIDQIELELATAKNDMNRHLHEYMEMCSMKRGLDVQMETCRRLITQSGDRKSPAFTAVPLSDP
 PPPPSETEDSDRDVSSDSSMR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC057601

ORF Size: 1113 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.

RefSeq: [BC057601](#), [AAH57601](#)

RefSeq Size: 2304 bp

RefSeq ORF: 1115 bp

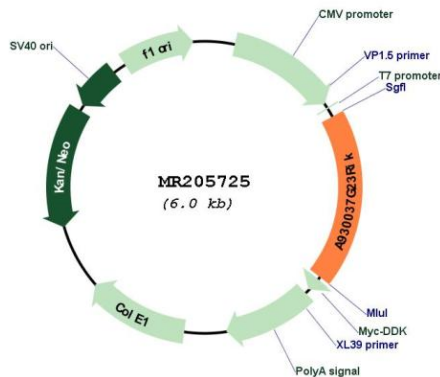
Locus ID: 320678

Cytogenetics: 6 F2

MW: 42.6 kDa

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 relocate 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]

Product images:



Circular map for MR205725