Product datasheet for MR205725L4V

A930037G23Rik (BC057601) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	A930037G23Rik (BC057601) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	A930037G23Rik
Synonyms:	4733401N06Rik; A930037G23Rik; HOM-TES-103; Iffo
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	BC057601
ORF Size:	1113 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR205725).
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.
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]