

Product datasheet for **MC228315**

Iffo1 (NM_001302778) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Iffo1 (NM_001302778) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Iffo1
Synonyms:	4733401N06Rik; A930037G23Rik; HOM-TES-103; Iffo
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228315 representing NM_001302778
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCCGTTATTTGGTCCCAACCTCTTCTCTACAGCAGGAGCAGCAAGGCTTGGCCGGCCGCTGG
 GGGACCTCTGGGAGGTGACCACTTTGCCGGGGAGGGGACTTAGCCTCGGCTCCGCTTGCCTCGGCCGG
 CCCCTCTGCCTATTCGCCTCCGGGGCTGGTCCGGCGCCCCCGCAGCCATGGCTCTCCGCAACGACCTA
 GGCTCCAACATCAACGACTGAAGACCTGAACCTCCGGTTTCGCTGCTTCTAGCCAAGGTGCACGAGC
 TAGAGCGCCGAAATCGGCTGCTGGGAAACAGCTGCAGCAGGCTCTAGAGGAGGGTAAGCAGGGCAGGGC
 GGGCTGGCCCGCTGACCAGGCGGTACAGACCGGCTTCATCAGCCCGATCCGGCCCTGGGGTGCC
 CTGAGCTCCCGCCGGCCCGCTGTGCCCCCATCAGCGGGGTGCTGGGCTCGCCCTCCGCTCGCCAG
 CTGGACCTTAGCATCTCTGCCGCTGCCACACATCATCTCCACTTCCACATCCACTGCCTTCTCCTC
 GTCGACCCGCTTCATGCCTGGCACCATCTGGTCTTCTCTCAGCCCGCCGGCTTGGACCAGGACTGGAA
 CCCACGCTGGTGAAGGGCTGGCTGTCTGGGTACACCTGACGGGGTGGGCTCCAGATCGACACCA
 TCAACCCTGAGATCCGTGCCCTGTACAACGTGCTGGCCAAAGTGAAGCGGGAGCGGGACGAGTACAAGCG
 AAGGTGGGAAGAGGAATACACGGTTCGGATACAGCTACAAGAGCGAGTACTGAGCTCCAGGAGGAGGCC
 CAAGAGGCCGATGCTGCCAAGAGGAGCTAGCCATGAAGTTGAGCAGCTGAAGGCAGAGCTGGTGGTCT
 TCAAGGGGCTCATGAGTAATAATCTGACAGAGCTGGACACCAAGATCCAGGAAAAGGCCATGAAAGTCGA
 CATGGACATCTGCCGCCGATTGACATCACGGCAAGCTCTGTGACTTGGCCAGCAGCGCAACTGTGAG
 GATATGATCCAGATGTTCCAGAAGCTGGTCCCCTCCATGGGGGGCGGAAGCGGGAGCGCAAGGCTGCTG
 TGGAGGAGGACACCTCCCTGTCGGAGAGTGATGGGCCCGCCAGCTGAGGGTGCCGAGGAGGAGACAC
 AGCCCTCAGCATCAACGAGGAGATGCAGCGCATGCTCAGCCAGCTGAGGGAGTATGATTTTGAGGACGAC
 TGTGACAGCTGACTTGGGAGGAGACTGAGGAGACCTTGCTACTTTGGGAGGATTTCTCAGGCTATGCCA
 TGGCAGCCGAGAGGCCAGGGAGAGCAGCAGGAGGACAGCCTGGAGAAGGTGATCAAAGACACGGAGTC
 CCTGTTCAAACCCGGGAGAAGGAGTACCAGGAGACCATGACCAGATAGAGCTGGAGCTGGCCACAGCC
 AAGAACGACATGAACCGACCTGCATGAGTACATGGAGATGTGCAGCATGAAGCGGGCCCTGGACGTGC
 AGATGGAGACCTGCCCGGCTCATCACACAGTCCGGGGACCGAAAGTCTCTGCTTTCACTGCGGTCCC
 GCTTAGCGACCCCGCCACCGCCGAGTGAGACTGAGGACTCCGATCGAGACGTCTCATCTGATAGCTCC
 ATGAGATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001302778
- Insert Size:** 1689 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001302778.1](#), [NP_001289707.1](#)

RefSeq Size: 2866 bp

RefSeq ORF: 1689 bp

Locus ID: 320678

UniProt ID: [Q8BXL9](#)

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]

Transcript Variant: This variant (3) uses two alternate splice sites in the coding region but maintains the reading frame compared to variant 1. It encodes isoform c, which is the same length as isoform a.