

Product datasheet for **MC203039**

Gfer (NM_023040) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfer (NM_023040) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gfer
Synonyms:	Alr; ERV1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC023941 CCACGCGTCCGGCGCCGGCGGTGGCGTGCACGCTCCTCCGAAGTGTCCGGCGCACGCCCTCTTGGCCCCG CTGCCCGCACGCCAGCAAGATGGCGGCGCCAGCGAGCCGGCGGGCTTCCCTCGCGGCAGTCGCTTCTCC TTCTGCGGGCGCGCGCTCCGAGATGACCGACGACCTGGTACTGACGCGCGGGGCCGCGGCGCAA GGCATAGAGACGACACCACCCCTTCCGGCGCCCGGCGCCGAAGTTTGGAGCACGGGAAGCGACCGTG CCGGGCGCTGCGTGGACTTCAAGTCGTGGATGCGGACCCAGCAGAAGCGGGACATCAAGTTTAGGGAGGAC TGTCCGCAGGATCGGGAAGAATTGGGTCCGCACACCTGGGCTTCTCCATACGCTGGCCGCTATTACC CGGACAGGCCACGCCAGAACAACAACAGGATATGGCCAGTTCATACATATATTTTCCAAGTTTACCC CTGCGAGGAATGTGCGGAAGACATAAGGAAGAGGATAGGCAGGAACCAGCCAGACACAAGCACTCGAGTA TCCTTCAGCCAGTGGCTGTGCCGCTGCACAATGAGGTGAATCGGAAGCTGGGCAAGCCTGATTTTACT GCTCGAGAGTAGATGAGCGTTGGCGTGACGGCTGGAAGGACGGCTCCTGTACTAGAAGATTACCAGCAG TTCTGAGGGGCATCTAGCCTGGTCTATGGGCAACAGCCTGATTGACGATTAAGTGCATCTGAGCCAA CACTTGTCTGTAGTTGGGGGAGAAATCCCTAGAACACTGCCTCTGGGAACCCTGCCACAGGATTAAGA AATGGAGGTGCCTACTACAGACACTTGGGTGGCTCCTCAGCGAAAGCCCATGAGACTGAAGGTGAGAG GCAGGAGTGGTCCAGGTGCCTCGTACCCTTCAATTTGGGACATAGTTGCCCAAAGGAAGATGGGCTAGAT GATTGCCCTACTACTACAGCCCTGGCTGCCTACAAGAAGTGTGATCCTGGCAACTCTGCCATTTTCA ATTGAAGCAGGGTTCCCCAGCTCCAGCAGGGTTTTTCTCTTAGGGTGTACCAACCATGGTGGCCACTGTC AGCCTGGCACATGGTCTTCTGCAGCTATGACAAGCATGTCAGCAGAGGGTCTGGGAACAGCTTCCCTTAG CGTTTGGGCCCCAAATAAACTGAAGTGACTTAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_023040
Insert Size:	597 bp



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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:	<u>BC023941</u> , <u>AAH23941</u>
RefSeq Size:	1238 bp
RefSeq ORF:	597 bp
Locus ID:	11692
UniProt ID:	<u>P56213</u>
Cytogenetics:	17 12.48 cM
Gene Summary:	FAD-dependent sulfhydryl oxidase that regenerates the redox-active disulfide bonds in CHCHD4/MIA40, a chaperone essential for disulfide bond formation and protein folding in the mitochondrial intermembrane space. The reduced form of CHCHD4/MIA40 forms a transient intermolecular disulfide bridge with GFER/ERV1, resulting in regeneration of the essential disulfide bonds in CHCHD4/MIA40, while GFER/ERV1 becomes re-oxidized by donating electrons to cytochrome c or molecular oxygen (By similarity).[UniProtKB/Swiss-Prot Function]