

Product datasheet for **MC205790**

Ears2 (NM_026140) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ears2 (NM_026140) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ears2
Synonyms:	3230401I01Rik; mKIAA1970
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC025907
 CGTGTGTGTTTCTAGTCCACATGGCGGCGCCCTCAAGAGGCTTCTGCTGGCCGAGCCGCACGTGGTGGC
 CCTCGGGCACC CGTGGGGCGGCGGAGGCCAGTCTGGGCCAGATCCC GGGGCCCGGTGCGAGTGC GC
 TTCGCTCCCAGCCCCACAGGCTTCTGCACCTGGGTGGCTCCGTA CTGCCCTCTACAAC TACATCTTTG
 CCAAGAAGCACC AAGGGAGCTTCATTCTGAGGCTGGAGGACCCGATCAGAGCCGCTTGGTGCCAGGGGC
 AGCAGAAAAGCATTGAGGACATGCTGGAGTGGG CAGGCATCCCACCTGATGAGAGTCCCCGCGGGTGGT
 CCTGCAGGGCCCTACTGTCACTCCAGCGGCTGGCTCTGTATGCCCAAGCCACGGAAGCCTTGCTGAGAT
 CTGGAGCTGCCTATCCCTGTTTCTGTTT GCCACAGCGGCTGGAGCTTCTGAAGAAGGAAGCACTGAGGAG
 CCGACAGACACCCCGGTATGACAATCGGTGCCGGAACCTGAGCCAGGCACAGGTGGCCAGAAAGCTGGCC
 GTAGACCCCAAGCCTGCTATCCGCTTCCGCTAGAGGAGGCAGTACCAGCCTTCCAGGACCTGGTATATG
 GCTGGACTCAGCATGAAGTGGCCAGTGTGGAGGGGACCCAGTTATCCTGAAAAGTGACGGCTTTCCAC
 CTACCACCTAGCCTGTGTGGTAGATGACCACCACATGAGCATCAGCCATGTGCTGCGGGGCTCCGAGTGG
 CTAGTCTCCACCTCAAGCACCTGCTCCTACCAGGCCCTGGGCTGGCAGCCACCTCGATTGCTCATC
 TGCCCCTGCTCCTCAACAGGGATGGTAGCAAGCTGTCTAAGAGGCAAGGGGACATTTTCTGGAACATTT
 TGCTGCCACCGGTTTTCTGCCAGAAGCCTTGCTTGACATCATACCAACTGTGGCTCGGGGTTTTGCAGAG
 AACCAATGGGCAGGACCTGCCGGAGCTGATTACACAGTTTGACCTGACGCGGATCACCTGCCACTCAG
 CCCTGCTGGACCTAGAGAAGCTCCAGAATTTAACAGGCTGCACCTCCGCGGCTGGTGAGCAGTGAGAC
 CCAGAGGCCCCAGTTGGTGGAGAAATTG CAGGGCCTGGTGAAGGAGGCATTCCGGAGTGAAGTGC AAAAC
 AAGGATGTTCTGGACCCTGCATATATGGAGAGGATCCTCCTGCTGAGACAGGGTCACATCAGCCGCTGC
 AGGATCTGGTCTCCCCAGTGTACTCCTACTTATGGACCCGCCCTGCTGTCCATCGATCAGAACTGGGTGC
 CAGCTCGAAAACGTGGATGTGATTGCCAAGCGCTTGTGGGGCTTTTAGAAAGACCTGGCTTAAGCCTA
 ACTCAGGATGTGCTGAACAGAGAGCTGAAGAAGCTGT CAGAAGGTCTGGAAGGCCCAAGCATAGCAGTG
 TGATGAAGCTCCTCCGGATGGCCCTCAGTGGACAGCTGCAAGGACCCCTGTGGCTGAGATGGTGTGTC
 CTTGGGCCCAAAGGAAGTACGGGAACGAATCCAGAAGGTGCTTTCTAGCTAGGGAGAAGATGCATAGCAC
 CATCGAGATGACCATGAGAGCCTCTAACCATGGAACTGAATTCTGAGGAGAGCAGGAAACCTGGAGCCT
 ATTGGGACCCCTTTCAGGATGAACAGCTGTAGAAAACAAGCACTCTGACTACTCTCATCAGCTGGCCTTCGG
 GGACCCAGCTGTTTCACTGTTGACTCTGGGAATAATGAGCTTGAAGTGTGCTTGATTCTTCTATT
 TTTTTAAAGACTTTTTAAAAATGTGAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_026140

Insert Size: 1572 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:

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: [BC025907](#), [AAH25907](#)

RefSeq Size: 1862 bp

RefSeq ORF: 1572 bp

Locus ID: 67417

UniProt ID: [Q9CXJ1](#)

Cytogenetics: 7 F2

Gene Summary: This gene encodes a putative member of the class I family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. This protein is encoded by the nuclear genome but is likely to be imported to the mitochondrion where it is thought to catalyze the ligation of glutamate to tRNA molecules. Mutations in a similar gene in human have been associated with combined oxidative phosphorylation deficiency 12 (COXPD12). [provided by RefSeq, Mar 2015]