

Product datasheet for **SC126403**

COA5 (NM_001008215) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COA5 (NM_001008215) Human Untagged Clone
Tag:	Tag Free
Symbol:	COA5
Synonyms:	6330578E17Rik; C2orf64; CEMCOX3; MC4DN9; Pet191
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001008215 edited
 TGAGACTGGGGCCTCGCTCGCTCCCGACCCGGTTGCAAGTGTTCGGTGGGAGAAAGTCG
 CGTCCGCATCGGAGGGGAAGCGCCGTCATGCCTAAGTATTATGAGGACAAGCCGAGGGC
 GGCGCGTGC CGGGCCTGAAGGAGGACCTGGGCGCGTGTCTGCTGCAGTCGGACTGTGTG
 GTCCAGGAAGGAAATCACCTCGGCAGTGTGTTGAAGGAAGGATACTGCAACTCTTTGAAG
 TACGCATTTTTGAGTGTAAAAGATCAGTGTGGATAACAGGGCAAGATTCAGAGGAAGA
 AAAGGATATTGATGCATTATGTTGAAGCCAACATGGAAAACAACAAATATTTCCCTGGT
 CATTAACACAAAAGAGCCAAAACAGGAAACATACTTTTACTACATCTGTTGGTTGGAC
 CAGATTTCCCTCCGTGGAACTGAAGAAAGTGATGAGTTGTTTTCGAATATGTATAA
 AGTAAATGATTCTCTGATCCAAGTTATTTTGAAGAAAAACCTAATTGAACAGGTATG
 GGTTGGGAGCATAATAAATGTGTTTGAAGATTGTTCTAAAGCACAGAAAATGGAAGAC
 TGTTATTTGCAAACTTGACTCTTCAATTGAATTACCAATTAGTACAGGCCACTGATTTG
 ACTGACACAGTCGATAACATGCAGCCTATCCAGAAGGTGTCTGTTGGGAAAGTTTAGGAT
 AAAACTTTTTCTTTAGTTCAGTCTTTCTGTCTAGTTCTAAAATGAATTGTGTTTGATT
 CCTTAGAGAAGAAATACTTCATTTGTGCTCTGATTCACTGAAGTAATAACCTCAGCACTT
 TAATAGCGTCCACAGGCATAGCTGATGCTAGGCCCCAGATTGTGTGCCAGGCTCTTTA
 CCATCATCTTCGACTGTTTTGTTTCTGTTACATTTTCAGTCTGGCCCGCTCTACAT
 AATGGGCCAGTGTGAGCTCCAAGTCCACATCCTTATTATCCATGATTCAAAAGGGAGAGA
 GAGAACTTCCTTTTTCAGGGTCCACAAATCAAATCTATAAAGGACTCTGGTCTTCCAG
 GATCACCTGCCCTTGCAATTGGACAGTCCCTGTGGAAGAGGGGATGGGGGCTGTGATCT
 TGGCCAGGCTGGGCTATCTATGCACTGTCTTGTCTAACTCCTGTGAGATCAGATG
 ATGAGTAGTGGGCTGAATCCCAAAGGAAAGGGTTTAGAGCAAGTGGAAACAACAGATG
 TTCATATAGAAAGCAAGAATGAAAACCATGAAGTGGTTGAAGATTAGCCTTACAGTAAT
 TTTATTCTGATCACTTAATACAGTAGAGTCAAACAGGAATCCAAGTTTCCAACCTTTATTA
 TTTTGGCACTGAAGAATTACAAAGAACTCTAGCGTCTTTATACCTCCGTGGTTCAGTGG
 AGTTAAAGCAATCGGGCGTTGTACAGCTCACTTGAGTTTTTAAAGTTCTACTAAAAAG
 TGAGAATTCCACAGCAATATGGGTCAATTGTTGCAGAAATACACAAAGGTCTGTTGTGAT
 ACTCCTTTTACCAGGAAAGGGACAATAATAGTTTTTTCAATGTATATATATAAGTG
 ATCTAACTTTTTATTAATAAAAGTAAACAACCTCTAAAATGTAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001008215 unedited
 GGACTTTGGATTGTAAACGACTTACTATAGGCGGCCGCGCAATTGATCTGGTACCGG
 TCCGGAATTCGGGATTGAGACTGGGGCTCGCTCGCTCCCGACCCGGTTGCAAGTGT
 GCGGTGGGAGAAAGTCGCGTCCGCATCGGAGGGGAAGCGCCGTCATGCCTAAGTATTATG
 AGGACAAGCCGAGGGCGCGCGTGC CGGGCCTGAAGGAGGACCTGGGCGCGTGTCTGC
 TGCAGTCGGACTGTGTGGTCCAGGAAGGAAATCACCTCGGCAGTGTGTTGAAGGAAGGAT
 ACTGCAACTCTTTGAAGTACGCATTTTTGAGTGTAAAAGATCAGTGTGGATAACAGGG
 CAAGATTCAGAGGAAGAAAGGATATTGATGCATTATGTTGAAGCCAACATGGAACAA
 CAAATATTTTCCCTGGTCATTAACACAAAGCAAAACAGGAAACATACTTTTACTA
 CATCTGTTTGGTTGGACCAGATTTCCCTCCGTGGAACACTGAAGAAAGTGGATGAGTTG
 TTTTCGAATATGTATAAAGTAAATGATTCTCTTGATCCAAGTTATTTTGAAGAAAAAC
 CTAATTGAACAGGTATGGGTTGGGAGCATAATAATGTGTTTTGAGAATTGTTCTAAAGC
 ACAGAAATGGAAGACTGTTATTTGCAAACTTGACTCTTCAATTGATTACCAATTAGT
 ACAGGCCACTGATTTGACTGACACAGTCGATAACATGCAGCCTATCCAGAAGGTGTCTGT
 TGNGAAAGTTTANGATAAAACCTTTTCTAGTTCAAGTCTTTTCTGTCTAGTTCTAAATG
 AATTGTGTTTGAATCCCTANANAAGAAATACTNCATTTGTGCTCTGATTCACCTGAGTA
 TAC

Restriction Sites: NotI-NotI
ACC�: NM_001008215

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:	<u>NM_001008215.1</u> , <u>NP_001008216.1</u>
RefSeq Size:	1698 bp
RefSeq ORF:	225 bp
Locus ID:	493753
UniProt ID:	<u>Q86WW8</u>
Cytogenetics:	2q11.2
Gene Summary:	This gene encodes an ortholog of yeast Pet191, which in yeast is a subunit of a large oligomeric complex associated with the mitochondrial inner membrane, and required for the assembly of the cytochrome c oxidase complex. Mutations in this gene are associated with mitochondrial complex IV deficiency, a disorder of the mitochondrial respiratory chain with heterogeneous clinical manifestations, ranging from isolated myopathy to a severe disease affecting several tissues and organs. [provided by RefSeq, Dec 2011]