

Product datasheet for **SC115099**

ETHE1 (NM_014297) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETHE1 (NM_014297) Human Untagged Clone
Tag:	Tag Free
Symbol:	ETHE1
Synonyms:	HSCO; YF13H12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014297, the custom clone sequence may differ by one or more nucleotides

ATGGCGGAGGCTGTACTGAGGGTCGCCGCGGCGAGCTGAGCCAGCGCGGCGGGTCTGGAGCCCCATCC
TCCTGCGGCAGATGTTTCGAGCCTGTGAGCTGCACCTTCACGTACCTGCTGGGTGACAGAGAGTCCCGGA
GGCCGTTCTGATCGACCCAGTCTTGAAACAGCGCCTCGGGATGCCAGCTGATCAAGGAGCTGGGGCTG
CGGCTGCTCTATGCTGTGAATACCCACTGCCACGCGGACCACATTACAGGCTCGGGGCTGCTCCGTTCCC
TCCTCCCTGGCTGCCAGTCTGTCATCTCCCGCCTTAGTGGGGCCAGGCTGACTTACACATTGAGGATGG
AGACTCCATCCGCTTCGGGCGCTTCGCGTTGGAGACCAGGGCCAGCCCTGGCCACACCCAGGCTGTGTC
ACCTTCGTCCTGAATGACCACAGCATGGCCTTCACTGGAGATGCCCTGTTGATCCGTGGGTGTGGCGGA
CAGACTTCCAGCAAGGCTGTGCCAAGACCTTGTAACCACTCGGTCCATGAAAAGATCTTCACACTTCCAGG
AGACTGTCTGATCTACCCTGCTCAGATTACCATGGGTTACAGTGTCCACCGTGGAGGAGGAGGAGT
CTGAACCTCGGCTCACCTCAGCTGTGAGGAGTTGTCAAAATCATGGGCAACCTGAACTTGCCTAAAC
CTCAGCAGATAGACTTTGCTGTTCCAGCCAACATGCGCTGTGGGTGCAGACACCCACTGCCTGA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014297 unedited <pre> TTTCACCATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGGGAGGGTCGG CCGGCGGCAGCTGAGCCAGCGCGCGGGTCTGGAGCCCCATCCTCTGCGGCAGATGTT CGAGCCTGTGAGCTGCACCTTACGTACCTGCTGGGTGACAGAGAGTCCCGGGAGGCCGT TCTGATCGACCCAGTCTTGGAAACAGCGCTCGGGATGCCAGCTGATCAAGGAGCTGGG GCTGCGGCTGCTCTATGCTGTGAATACCACTGCCACGCGGACCACATTACAGGCTCGGG GGTGTCCGTTCCCTCCTCCCTGGCTGCCAGTCTGTCTATCTCCCGCCTTAGTGGGGCCCA GGCTGACTTACACATTGAGGATGGAGACTCCATCCGCTTCGGGCGCTTCGCGTTGGAGAC CAGGGCCAGCCCTGGCCACACCCAGGCTGTGTACCTTCGTCTGAATGACCACAGCAT GGCCTTCACTGGAGATGCCCTGTTGATCCGTGGGTGTGGGCGGACAGACTTCAGCAAGG CTGTGCCAAGACCTTGTACCACTCGGTCCATGAAAAGATCTTCACACTTCAGGAGACTG TCTGATCTACCTGTCTACGATTACCATGGGTTACAGTGTCCACCGTGGAGGAGGAGAG GACTCTGAACCTCGGCTCACCTCAGCTGTGAGGAGTTTGTCAAATCATGGGNNACCC TGACTTGCTAAACCTCAGCAGATAGACTTTGCTGTTCCAGCCCACATGCGCTGTGGGT GCAGACACCCACTGCCTGATCTCACTTCTGTGAGATGCTCCCATCCACTATTAATGCACT TAGTGGNNAGANNAGGNCNGCAATGACACTGCACCTCTCCTTTTCCACCGCATTCCCTGA AGCTNCCTAATAA </pre>
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014297 unedited <pre> NNNCCTACTTGNACCGGGCCGCGATTCTANNGATCGGTTTTTTTTTTTTTTTTTTTTCAC GTAAAAAAGTTTTATTTAGGGAGCTCCAGGGAATGCGGTGGGAAAGGAGAGGTGCAGT GTCATTGCCGCCCTCTCCTCCACCTAGTGCATTAATAGTGGATGGGAGCATCTGACAGA AGTGAGATCAGGCAGTGGGTGTCTGCACCCACAGCGCATGTTGGCTGGAACAGCAAAGT CTATCTGCTGAGTTTAGGCAAGTTCAGTTGCCATGATTTTGACAAATCCTCACAGC TGAGGGTGAGCCGAGGGTTCAAAGTCTCTCCTCCTCCACGGTGGACACTGTGAACCCAT GGTAATCGTGAGCAGGTAGATCAGACAGTCTCCTGGAAGTGTGAAGATCTTTTCATGGA CCGAGTGGTACAAGGTCTTGGCACAGCCTTGTGGAAGTCTGTCCGCCACACCCACGGA TCAACAGGGCATCTCCAGTGAAGGCCATGCTGTGGTCATTGAGCAGCAAGGTGACACAGC CTGGGGTGTGGCCAGGGCTGGCCCTGGTCTCAACGCGAAGCGCCCGAAGCGGATGGAGT CTCCATCTCAATGTGTAAGTCAGCCTGGGCCCCACTAAGGCGGGAGATGACAGACTGGC AGCCAGGGAGGAGGGAACGGAGCANCCCCGAGCCTGTAATGTGGTCCGCGTGGCAATGGG TATTCACAGCATAAAGCAGCCGCACCCCAAGTCTTGTGATCAGCTGGGCATCCGGAGGCG CTGTTTCCAGGACTTGGGTGATCAGAACGGCCTCCCGGAAGTCTCTGGCACCCACAGGT ACCTGAAAGGTGAATTCAGAGCTCGAACATTTGCCCGAGGAGGATGGGGGCTCCAAAC CCCCCGGGCTTGGTTAACTTGCCACACGA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014297
Insert Size:	960 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:	<u>NM_014297.2, NP_055112.1</u>
RefSeq Size:	978 bp
RefSeq ORF:	978 bp
Locus ID:	23474
UniProt ID:	<u>O95571</u>
Cytogenetics:	19q13.31
Domains:	lactamase_B
Gene Summary:	This gene encodes a member of the metallo beta-lactamase family of iron-containing proteins involved in the mitochondrial sulfide oxidation pathway. The encoded protein catalyzes the oxidation of a persulfide substrate to sulfite. Certain mutations in this gene cause ethylmalonic encephalopathy, an infantile metabolic disorder affecting the brain, gastrointestinal tract and peripheral vessels. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).