

Product datasheet for **SC122582**

alpha 1 Fetoprotein (AFP) (NM_001134) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1 Fetoprotein (AFP) (NM_001134) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha 1 Fetoprotein
Synonyms:	AFPD; FETA; HPAFP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001134 edited
CCACTGCCAATAACAAAATAACTAGCAACCATGAAGTGGGTGGAATCAATTTTTTTAATT
TTCTACTAAATTTTACTGAATCCAGAACACTGCATAGAAATGAATATGGAATAGCTTCC
ATATTGGATTCTTACCAATGACTGCAGAGATAAGTTTAGCTGACCTGGCTACCATATTT
TTTGCCAGTTTGTTC AAGAAGCCACTTACAAGGAAGTAAGCAAAATGGTGAAGATGCA
TTGACTGCAATTGAGAAACCCACTGGAGATGAACAGTCTTCAGGGTGTTCAGAAAACAG
CTACCTGCCTTTCTGGAAGAATTTGCCATGAGAAAGAAATTTTGGAGAAGTACGGACAT
TCAGACTGCTGCAGCAAAGTGAAGAGGGAAGACATAACTGTTTTCTTGACACAAAAAG
CCCACTCCAGCATCGATCCCACTTTTCCAAGTTCAGAACCTGTCAAGCTGTGAAGCA
TATGAAGAAGACAGGGAGACATTCATGAACAAATTCATTTATGAGATAGCAAGAAGGCAT
CCCTTCTGTATGCACCTACAATCTTCTTTGGGCTGCTCGTATGACAAAAATAATTCCA
TCTTGCTGCAAAGCTGAAAATGCAGTTGAATGCTTCCAAACAAAGGCAGCAACAGTTACA
AAAGAATTAAGAGAAAGCAGCTTGTTAAATCAACATGCATGTGCAGTAATGAAAAATTT
GGGACCCGAACCTTCCAAGCCATAACTGTTACTAACTGAGTCAAGATTTACCAAAGTT
AATTTTACTGAAATCCAGAACTAGTCTGGATGTGGCCATGTACATGAGCACTGTTGC
AGAGGAGATGTGCTGGATTGTCTGCAGGATGGGAAAAAATCATGTCCTACATATGTTCT
CAACAAGACACTCTGTCAACAAAAATAACAGAATGCTGCAAACTGACCACGCTGGAACGT
GGTCAATGTATAATTCATGCAGAAAATGATGAAAAACCTGAAGGTCTATCTCAAATCTA
AACAGTTTTTTAGGAGATAGAGATTTTAAACCAATTTTCTTCAGGGGAAAAAATATCTTC
TTGGCAAGTTTTGTTTCATGAATATTCAAGAAGACATCCTCAGCTTGTCTGTCTCAGTAAT
CTAAGAGTTGCTAAAGGATACCAGGAGTTATTGGAGAAGTGTTCAGACTGAAAACCT
CTTGAATGCCAAGATAAAGGAGAAGAAGAATTACAGAAATACATCCAGGAGAGCCAAGCA
TTGGCAAAGCGAAGCTGCGGCCCTTCCAGAACTAGGAGAATATTACTTACAAAATGCG
TTTCTCGTTGCTTACACAAAGAAAGCCCCCAGCTGACCTCGTTCGAGCTGATGGCCATC
ACCAGAAAAATGGCAGCCACAGCAGCCACTTGTGCAACTCAGTGAGGACAAACTATTG
GCCTGTGGCGAGGGAGCGGCTGACATTATTATCGGACACTTATGTATCAGACATGAAATG
ACTCCAGTAAACCCTGGTGTGGCCAGTGTGCACTTCTTCATATGCCAACAGGAGGCCA
TGCTTCAGCAGCTTGGTGGTGGATGAAACATATGTCCCTCCTGCATTCTCTGATGACAAG
TTCATTTCCATAAGGATCTGTGCCAAGCTCAGGGTGTAGCGCTGCAAACGATGAAGCAA
GAGTTTCTCATTAACTTGTGAAGCAAAAGCCACAATAACAGAGGAACAACCTTGAGGCT
GTCATTGCAGATTTCTCAGGCCGTTGGAGAAATGCTGCCAAGGCCAGGAACAGGAAGTC
TGCTTTGCTGAAGAGGGCAAAAACCTGATTTCAAAAACCTCGTGTGCTTTGGGAGTTAA
ATTACTTCAGGGGAGAGAAAGACAAAACGAGTCTTTCATTCGGTGTGAACTTTTCTCTTT
AATTTTAACTGATTTAACTTTTGTGAATTAATGAAATGATAAAGACTTTTATGTGAG
ATTTCTTATCACAGAAATAAATATCTCAAATGTTAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001134 unedited NGGTAACGTCAATATTTGTATACGACTCACTATAGGCGGCCGCGNATCCCGGGATCCAC TGCCAATAACAAAATAACTAGCAACCATGAAGTGGGTGGAATCAATTTTTTAATTTCC TACTAAATTTTACTGAATCCAGAACACTGCATAGAAATGAATATGGAATAGCTTCCATAT TGGATTCTTACCAATGTACTGCAGAGATAAGTTTAGCTGACCTGGCTACCATATTTTTG CCCAGTTTGTTCAGAAGCCACTTACAAGGAAGTAAGCAAAATGGTGAAGATGCATTGA CTGCAATTTGAGAAACCCACTGGAGATGAACAGTCTTCAGGGTGTTTAGAAAACCAGCTAC CTGCCTTTCTGGAAGAACTTTGCCATGAGAAAGAAATTTTGGAGAAGTACGGACATTCAG ACTGCTGCAGCCAAAGTGAAGAGGGAAGACATAACTGTTTTCTTGCACACAAAAAGCCCA CTCCAGCATCGATCCCCTTTTCCAAGTCCAGAACCTGTCAAGCTGTGAAGCATATG AAGAAGACAGGGAGACATTCATGAACAAATTCATTTATGAGATAGCAAGAAGGCATCCCT TCCTGTATGCACCTACAATTCCTTTGGGCTGCTCGCTATGACAAAATAATTCCATCTT GCTGCAAAGCTGAANATGCAGTTGAATGCCTTCCAACAAGAGCAGCAACAGTTACAAAAG ATTTAAGAGAAGCAGCTTGTTAAATCACATGCATGTGCAGTAATGAAAAATTTGGGACC CGAACTTCCAGCCTTACTGTTACTAACTGAATCAGAGTTTACCACAGTTAATTTACTG AATCCAAAACACTAGTCCGGGAGTGCCCATGTTCTGAACACG
Restriction Sites:	Please inquire
ACCN:	NM_001134
Insert Size:	2098 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:	<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>NM_001134.1</u> , <u>NP_001125.1</u>
RefSeq Size:	2032 bp
RefSeq ORF:	1830 bp
Locus ID:	174
UniProt ID:	<u>P02771</u>
Cytogenetics:	4q13.3
Protein Families:	Druggable Genome, Secreted Protein

Gene Summary:

This gene encodes alpha-fetoprotein, a major plasma protein produced by the yolk sac and the liver during fetal life. Alpha-fetoprotein expression in adults is often associated with hepatocarcinoma and with teratoma, and has prognostic value for managing advanced gastric cancer. However, hereditary persistence of alpha-fetoprotein may also be found in individuals with no obvious pathology. The protein is thought to be the fetal counterpart of serum albumin, and the alpha-fetoprotein and albumin genes are present in tandem in the same transcriptional orientation on chromosome 4. Alpha-fetoprotein is found in monomeric as well as dimeric and trimeric forms, and binds copper, nickel, fatty acids and bilirubin. The level of alpha-fetoprotein in amniotic fluid is used to measure renal loss of protein to screen for spina bifida and anencephaly. [provided by RefSeq, Oct 2019]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).