

## Product datasheet for **SC205988**

### 5 Lipoxygenase (ALOX5) (NM\_000698) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** 5 Lipoxygenase (ALOX5) (NM\_000698) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** ALOX5  
**Synonyms:** 5-LO; 5-LOX; 5LPG; LOG5  
**ACCN:** NM\_000698  
**Insert Size:** 460 bp  
**Insert Sequence:** >SC205988 3'UTR clone of NM\_000698  
The sequence shown below is from the reference sequence of NM\_000698. The complete sequence of this clone may contain minor differences, such as SNPs.  
**Blue**=Stop Codon **Red**=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG  
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC  
GACCGGATTCCGAACAGTGTGGCCATCTGAGCACACTGCCAGTCTCACTGTGGGAAGGCCAGCTGCCCC  
AGCCAGATGGACTCCAGCCTGCCTGGCAGGCTGTCTGGCCAGGCCTCTTGGCAGTCACATCTCTTCCTC  
CGAGGCCAGTACCTTTCCATTTATTCTTTGATCTTCAGGGAACTGCATAGATTGATCAAAGTGTAACA  
CCATAGGGACCCATTCTACACAGAGCAGGACTGCACAGCGTCTGTCCACACCCAGCTCAGCATTCCA  
CACCAAGCAGCAACAGCAAATCACGACCACTGATAGATGTCTATTCTTGTGGAGACATGGGATGATTA  
TTTTCTGTTCTATTTGTGCTTAGTCCAATTCCTTGACATAGTAGGTACCCAATTCAATTACTATTGAA  
TGAATTAAGAATTGTTGCCATAAAAAATAATCAGTTCATTTAAAA  
ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA  
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_000698.5](#)



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**Summary:**

This gene encodes a member of the lipoxygenase gene family and plays a dual role in the synthesis of leukotrienes from arachidonic acid. The encoded protein, which is expressed specifically in bone marrow-derived cells, catalyzes the conversion of arachidonic acid to 5(S)-hydroperoxy-6-trans-8,11,14-cis-eicosatetraenoic acid, and further to the allylic epoxide 5(S)-trans-7,9-trans-11,14-cis-eicosatetraenoic acid (leukotriene A4). Leukotrienes are important mediators of a number of inflammatory and allergic conditions. Mutations in the promoter region of this gene lead to a diminished response to antileukotriene drugs used in the treatment of asthma and may also be associated with atherosclerosis and several cancers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

**Locus ID:**

240

**MW:**

16.8