

Product datasheet for **SC200560**

Neutrophil Elastase (ELANE) (NM_001972) Human 3' UTR Clone

Product data:

| | |
|--------------------|---|
| Product Type: | 3' UTR Clones |
| Product Name: | Neutrophil Elastase (ELANE) (NM_001972) Human 3' UTR Clone |
| Vector: | pMirTarget (PS100062) |
| Symbol: | ELANE |
| Synonyms: | ELA2; GE; HLE; HNE; NE; PMN-E; SCN1 |
| ACCN: | NM_001972 |
| Insert Size: | 109 bp |
| Insert Sequence: | >SC200560 3'UTR clone of NM_001972 The sequence shown below is from the reference sequence of NM_001972. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GACCCGGACCCGGCCAGCAGGACCCACTGAAGGGCTGCCCGGGTCACCTCAGCTGCCACACCCACA CTCTCCAGCATCTGGCACAATAAACATTCTCTGTTTTGTA ACGCGT AAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG |
| Restriction Sites: | Sgfl-Mlul |
| 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: | <u>NM_001972.4</u> |



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Summary:

Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode structurally similar proteins. The encoded preproprotein is proteolytically processed to generate the active protease. Following activation, this protease hydrolyzes proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix. The enzyme may play a role in degenerative and inflammatory diseases through proteolysis of collagen-IV and elastin. This protein also degrades the outer membrane protein A (OmpA) of *E. coli* as well as the virulence factors of such bacteria as *Shigella*, *Salmonella* and *Yersinia*. Mutations in this gene are associated with cyclic neutropenia and severe congenital neutropenia (SCN). This gene is present in a gene cluster on chromosome 19. [provided by RefSeq, Jan 2016]

Locus ID:

1991

MW:

3.9