ID: NG\_008307.3

Descrição: Homo sapiens serine protease 1 (PRSS1), RefSeqGene on chromosome 7

Name: NG\_008307

Len(seq): 3601

Anotações:

Taxonomy: ['Eukaryota', 'Metazoa', 'Chordata', 'Craniata', 'Vertebrata', 'Euteleostomi', 'Mammalia', 'Eutheria', 'Euarchontoglires', 'Primates', 'Haplorrhini', 'Catarrhini', 'Hominidae', 'Homo']

References: [Reference(title='Pancreatitis Overview', ...), Reference(title='PRSS1-Related Hereditary Pancreatitis', ...)]

his sequence is a reference standard in the RefSeqGene project. On Nov 5, 2015 this sequence version replaced NG\_008307.2. Summary: This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is secreted by the pancreas and cleaved to its active form in the small intestine. It is active on peptide linkages involving the carboxyl group of lysine or arginine. Mutations in this gene are associated with hereditary pancreatitis. This gene and several other trypsinogen genes are localized to the T cell receptor beta locus on chromosome 7.

Qualifiers:

Key: chromosome, Value: ['7']

Key: db\_xref, Value: ['GeneID:5644', 'HGNC:HGNC:9475', 'MIM:276000']

Key: gene\_synonym, Value: ['TRP1; TRY1; TRY4; TRYP1']

Key: note, Value: ['serine protease 1']

transcript\_id, Value: ['NM\_002769.5']

translation, Value: ['MNPLLILTFVAAALAAPFDDDDKIVGGYNCEENSVPYQVSLNSGYHFCGGSLINEQWVVSAGHCYKSRIQVRLGEHNIEVLEGNEQFINAAKIIRHPQYDRKTLNNDIMLIKLSSRAVINARVSTISLPTAPPATGTKCLISGWGNTASSGADYPDELQCLDAPVLSQAKCEASYPGKITSNMFCVGFLEGGKDSCQGDSGGPVVCNGQLQGVVSWGDGCAQKNKPGVYTKVYNYVKWIKNTIAANS']

type: sig\_peptide:

Key: inference, Value: ['COORDINATES: ab initio prediction:SignalP:4.0']

type: proprotein:

Key: product, Value: ['trypsin-1 proprotein']

type: mat\_peptide:

Key: product, Value: ['trypsin-1']

type: mat\_peptide:

Key: note, Value: ['propagated from UniProtKB/Swiss-Prot (P07477.1)']

Key: product, Value: ['Alpha-trypsin chain 1. /id=PRO\_0000313570']

https://www.uniprot.org/uniprot/P07477

type: mat\_peptide:

Key: note, Value: ['propagated from UniProtKB/Swiss-Prot (P07477.1)']

Key: product, Value: ['Alpha-trypsin chain 2. /id=PRO\_0000313571']

type: misc\_feature**:**

**Key: note, Value: ['Sulfotyrosine. /evidence=ECO:0000305|PubMed:17087724, ECO:0000305|PubMed:25010489; propagated from UniProtKB/Swiss-Prot (P07477.1); sulfatation site']**

**https://pubmed.ncbi.nlm.nih.gov/25010489/**

**type: misc\_feature:**

**Key: note, Value: ['Required for specificity. /evidence=ECO:0000250; propagated from UniProtKB/Swiss-Prot (P07477.1); other site']**