

## Product datasheet for **SC329897**

### Kallikrein 7 (KLK7) (NM\_001207053) Human Untagged Clone

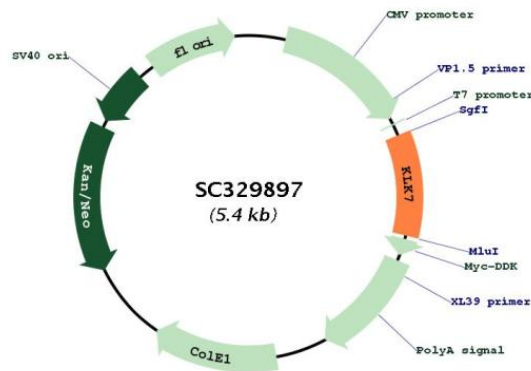
#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 7 (KLK7) (NM_001207053) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLK7
Synonyms:	hK7; PRSS6; SCCE
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC329897 representing NM_001207053. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAATGAGTACACCGTGACACTGGGCAGTGATACGCTGGGCGACAGGAGAGCTCAGAGGATCAAGGCC
TCGAAGTCATTCCGCCACCCCGGCTACTCCACACAGCCCATGTTAATGACCTCATGCTCGTGAAGCTC
AATAGCCAGGCCAGGCTGTCATCCATGGTGAAGAAAGTCAGGCTGCCCTCCGCTGCGAACCCCTGGA
ACCACCTGTACTGTCTCCGGCTGGGCACTACCACGAGCCAGATGTGACCTTTCCTCTGACCTCATG
TGCCTGGATGTCAAGCTCATCTCCCCCAGGACTGCACGAAGTTTACAAGGACTTACTGAAAAATTCC
ATGCTGTGCGCTGGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGACCGTTGGTG
TGCAGAGGTACCTGCAAGGTCTGGTGTCTGGGGAACCTTCCCTTGCGCCAACCAATGACCCAGGA
GTCTACACTCAAGTGTGCAAGTTCACCAAGTGGATAAATGACACCATGAAAAAGCATCGTAA
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Restriction Sites: SgfI-MluI

Plasmid Map:



[View online »](#)

<b>ACCN:</b>	NM_001207053
<b>Insert Size:</b>	546 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001207053.1</a></u>
<b>RefSeq Size:</b>	1973 bp
<b>RefSeq ORF:</b>	546 bp
<b>Locus ID:</b>	5650
<b>UniProt ID:</b>	<u><a href="#">P49862</a></u>
<b>Cytogenetics:</b>	19q13.41
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>MW:</b>	19.9 kDa

**Gene Summary:**

This gene encodes a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikrein genes are biomarkers for cancer. The encoded protein has chymotrypsin-like activity and plays a role in the proteolysis of intercellular cohesive structures that precedes desquamation, the shedding of the outermost layer of the epidermis. The encoded protein may play a role in cancer invasion and metastasis, and increased expression of this gene is associated with unfavorable prognosis and progression of several types of cancer. Polymorphisms in this gene may play a role in the development of atopic dermatitis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, which is one of fifteen kallikrein subfamily members located in a gene cluster on chromosome 19. [provided by RefSeq, May 2011]

Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start site, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript sequence data to make the sequence consistent with the reference genome assembly, which represents the 'AACCAACC' allele with regards to the 3' UTR polymorphism described in PMID 15191543.