

Product datasheet for SC310411

Acrosin (ACR) (NM_001097) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acrosin (ACR) (NM_001097) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310411 representing NM_001097. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTTGAGATGCTACCAACTGCCATTCTGCTGGTCTTGGCAGTGTCCGTGGTTGCTAAAGATAACGCC
ACGTGTGATGGCCCTGTGGGTTACGGTTCAGGCAAACCCACAGGGTGGTGTCCGCATCGTCGGCGGG
AAGGCTGCACAGCATGGGGCCTGGCCCTGGATGGTCAGCTCCAGATCTTACGTACAACAGCCACAGG
TACCACACATGTGGAGGCAGCTTGCTGAATTCACGATGGGTGCTCACTGCTGCTCACTGCTTCGTCGGC
AAAAATAATGTGCATGACTGGAGACTGGTTTTTCGGAGCAAAGGAAATTACATATGGGAACAATAACCA
GTAAAGGCGCCTCTGCAAGAGAGATATGTGGAGAAAATCATTCATGAAAAATACAACCTGCGACA
GAGGGAATGACATTGCCCTCGTGGAGATCACCCCTCCATTTCGTGTGGGCGCTTCATTGGGCGGGC
TGCTGCCCACTTTAAGGCAGGCCTCCCCAGAGGCTCCCAGAGCTGCTGGGTGGCCGGCTGGGGATAT
ATAGAAGAGAAAGCCCCAGGCCATCATCTATACTGATGGAGGCAGTGTGGATCTCATCGACCTGGAC
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TATGTGGTCGTGGGAATCACAAGCTGGGGGTAGGCTGTGCCCGTCCAAGCGCCCCGGAATCTACAGG
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CCCCACCTTCAACCCCGCCCCACCCCACTCCAGCCTCACCTTTACCCCAACCCCAACCCCAACCC
CCACCTACACCCTCATCTACCACAAAATTCCCAAGGACTTTCTTTTGCCAAGCGCCTACAGCAGCTC
ATAGAGGTCTTGAAGGGGAAGACCTATTCGACGGAAAGAACCATTATGACATGGAGACCACAGAGCTC
CCAGAACTGACCTCGACCTCCGATG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:	□
ACCN:	NM_001097
Insert Size:	1266 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_001097.2
RefSeq Size:	1384 bp
RefSeq ORF:	1266 bp
Locus ID:	49
UniProt ID:	P10323
Cytogenetics:	22q13.33
Protein Families:	Druggable Genome, Protease
MW:	45.8 kDa
Gene Summary:	Acrosin is the major proteinase present in the acrosome of mature spermatozoa. It is a typical serine proteinase with trypsin-like specificity. It is stored in the acrosome in its precursor form, proacrosin. The active enzyme functions in the lysis of the zona pellucida, thus facilitating penetration of the sperm through the innermost glycoprotein layers of the ovum. The mRNA for proacrosin is synthesized only in the postmeiotic stages of spermatogenesis. In humans proacrosin first appears in the haploid spermatids. [provided by RefSeq, Jul 2008]