

# Product datasheet for RC207685

### NGAL (LCN2) (NM\_005564) Human Tagged ORF Clone

### **Product data:**

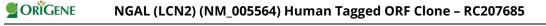
#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	NGAL (LCN2) (NM_005564) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NGAL
Synonyms:	24p3; MSFI; NGAL; p25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC207685 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGCC</mark>
	ATGCCCCTAGGTCTCCTGTGGGCTGGGCCTAGCCCTGTTGGGGGGCTCTGCATGCCCAGGCCCAGGACTCCA CCTCAGACCTGATCCCAGCCCCACCTCTGAGCAAGGTCCCTCTGCAGCAGAACTTCCAGGACAACCAATT CCAGGGGAAGTGGTATGTGGTAGGCCTGGCAGGGAATGCAATTCTCAGAGAAGACAAAGACCCGCAAAAG ATGTATGCCACCATCTATGAGCTGAAAGAAGAACAAGAGCTACAATGTCACCTCCGTCCTGTTTAGGAAAA AGAAGTGTGACTACTGGATCAGGACTTTTGTTCCAGGTTGCCAGCCCGGCGAGTTCACGGCTGGGCAACAT TAAGAGTTACCCTGGATTAACGAGTTACCTCGTCCGAGTGGTGAGCACCAACTACAACCAGCATGCTATG GTGTTCTTCAAGAAAGTTTCTCAAAACAGGGAGTACTTCAAGATCACCCTCTACGGGAGAACCAAGGAGC TGACTTCGGAACTAAAGGAGAACTTCATCCGCTTCTCCAAATCTCTGGGCCTCCCTGAAAACCACATCGT CTTCCCTGTCCCAATCGACCAGTGTATCGACGGC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC207685 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MPLGLLWLGLALLGALHAQAQDSTSDLIPAPPLSKVPLQQNFQDNQFQGKWYVVGLAGNAILREDKDPQK MYATIYELKEDKSYNVTSVLFRKKKCDYWIRTFVPGCQPGEFTLGNIKSYPGLTSYLVRVVSTNYNQHAM VFFKKVSQNREYFKITLYGRTKELTSELKENFIRFSKSLGLPENHIVFPVPIDQCIDG
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV

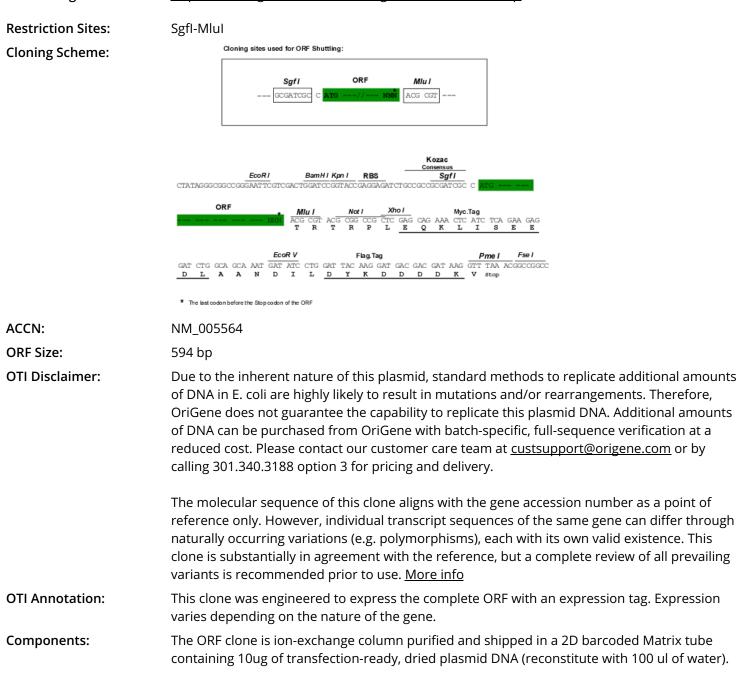


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**Chromatograms:** 

https://cdn.origene.com/chromatograms/mk6267\_d05.zip



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## Sevent Se

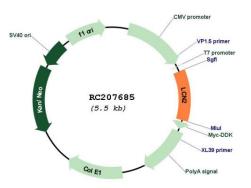
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 005564.5</u>
RefSeq Size:	840 bp
RefSeq ORF:	597 bp
Locus ID:	3934
UniProt ID:	<u>P80188</u>
Cytogenetics:	9q34.11
Domains:	lipocalin
Protein Families:	Secreted Protein
MW:	22.6 kDa
Gene Summary:	This gene encodes a protein that belongs to the lipocalin family. Members of this family transport small hydrophobic molecules such as lipids, steroid hormones and retinoids. The protein encoded by this gene is a neutrophil gelatinase-associated lipocalin and plays a role in innate immunity by limiting bacterial growth as a result of sequestering iron-containing siderophores. The presence of this protein in blood and urine is an early biomarker of acute kidney injury. This protein is thought to be be involved in multiple cellular processes, including maintenance of skin homeostasis, and suppression of invasiveness and metastasis.

Mice lacking this gene are more susceptible to bacterial infection than wild type mice. [provided by RefSeq, Sep 2015]

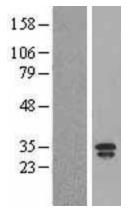
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### **Product images:**

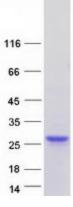


Circular map for RC207685



Western blot validation of overexpression lysate (Cat# [LY417226]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207685 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified LCN2 protein (Cat# [TP307685]). The protein was produced from HEK293T cells transfected with LCN2 cDNA clone (Cat# RC207685) using MegaTran 2.0 (Cat# [TT210002]).

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