

Product datasheet for RC221052

Kallikrein 8 (KLK8) (NM_144506) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kallikrein 8 (KLK8) (NM_144506) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: KLK8
Synonyms: HNP; NP; NRPN; PRSS19; TADG14
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC221052 representing NM_144506
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

**ATGGGACGCCCCGACCTCGTGCGCCAAGACGTGGATGTTCTGCTCTTGCTGGGGGAGCCTGGGCAG
 AGAATTTTCTGACTCTCAACTGTGCAGAAGTAAAAATCTTTCCCAGAAGAAGTGTGAGGATGCTTA
 CCCGGGGCAGATCACAGATGGCATGGTCTGTGCAGGCAGCAGCAAAGGGGCTGACACGTGCCAGGGCGAT
 TCTGGAGGCCCCCTGGTGTGTGATGGTGCCTCCAGGGCATCACATCCTGGGGCTCAGACCCTGTGGGA
 GGTCCGACAAACCTGGCGTCTATACCAACATCTGCCGCTACCTGGACTGGATCAAGAAGTCATAGGCAG
 CAAGGGC**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221052 representing NM_144506
 Red=Cloning site Green=Tags(s)
 MGRPRPRAAKTWMFLLLLGGAWAENFPDTLNCAEVKIFPQKKCEDAYPGQITDGMVCAGSSKGADTCQGD
 SGGPLVCDGALQGITSWGSDPGRSDKPGVYTNICRYLDWIKKIIGSKG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| 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_144506.3 |
| RefSeq Size: | 590 bp |
| RefSeq ORF: | 360 bp |
| Locus ID: | 11202 |
| UniProt ID: | O60259 |
| Cytogenetics: | 19q13.41 |
| Protein Families: | Druggable Genome, Secreted Protein, Transmembrane |
| MW: | 12.5 kDa |
| Gene Summary: | Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in tandem in a gene cluster on chromosome 19. The encoded protein may be involved in proteolytic cascade in the skin and may serve as a biomarker for ovarian cancer. Alternate splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013] |