

Product datasheet for **RR214830**

Ces5a (NM_001012056) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ces5a (NM_001012056) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ces5a
Synonyms:	Ces5; Ces7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR214830 representing NM_001012056
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGGGGACTGGGTGCATACAGGCCAGGCCCTAATCTGGGTCCTTTGGATCTTTGCAGCCATCATCA
 GGGGGTCTGTGACTGAAGAGCCACATAGGTATACCAGGCTGGGATGGGTGCAGGGGAAGCAAGCCACTGT
 GCTGGGAAGACTTGAACCTGTGAACGTGTTTCTTGGGATCCCCTTTGCTGCACCCCTCTTGACCTCTG
 CGGTTTTCCAATCCACAGCCTCCGATCCCATGGCACGATTTGCGAGAAGCCACTACCTATCCCAATGTGT
 GCTTTCAGAACTTAGAGTGGCTTTCATATATCAAAACCTGCTCAAAGTACATTACCCTAAACTGGAGT
 GTCAGAGGACTGTCTGTACCTCAACATTTATGCACCAGCCTACGCCAATGATGGCTCCCCTCTCCGGTC
 ATGATGTGGATACCTGGAGGTGGCTTTGAGACTGGCTCGGCTCCATCTTCGATGGGTCTGCCCTGGCTG
 CCTATGAGGACGTGTTGATTGTGACCATCCAGTACCGCTAGGAATATTTGGATTCTTCAACACACAGAA
 CCAGCATGCCCTGGGAAGTGGGCTTCCAGGATCAGTTGGCTGCCTTGAATGGGTTAGGGAGAATCATC
 AACTACTTCGGTGGAAACCCTGACTCTGTGACCATCTTTGGTGGCTCGGCAGGAGCCATAAGCATTCTA
 GCCTCATTCTGTCTCCTTTGAGCGCGGGTTATTTCCACAGAGCCATCATGCAGAGCGGGTGGCCATCAT
 CCCAGCCTGAAGATTTTGTGATGAAGTGAACACCGTTTGCAGGTGGTTGCGGATGTCTGTAAGTGC
 AACGTATCAGACTCCAAGTTTTGCTGAAGTGCCTGAGGGAAAAGTCTTCTCTCGAGTTGCTGAGCCTTG
 GCCAGAAAACAAAGGCATTCACCTCGAGTGGTTGATGGTTCTTTCTTCTGAAGAACCGATGGAAGTGT
 GTCTCAAAGACATTTAAACAGTTCCTTCTATCATTGGAGTCAATAACCAGGAGTGTGGCTACATACTG
 CCCATGAGGGAAGCGCCTGAGATTCTTTTCGGCTCCAATGAGTCTACCGCTCTCACCTGATACATGTCT
 TGCTGCATATTTCCCCCAGTATATGCACATCGTGGCAAAGATTACTTCCACGGCAAGCATTCTCTGAC
 TGACATCCGAGACACTTTACTGGATTTGTTGGAGATGTGTTCTTTGTGGTTCTGGGCTGGTTACAGCT
 CGAAATCACAGAGATGCTGATGGACCTGTCTATTTTTATGAGTTTCAGCACCCGACCAACTGCTTTCAGA
 ACACAAGGCCAGCTTTCGTGAAGGCTGACCACACGGATGAAATCCGCTTTGTCTTTGGAGGCCATTCTCT
 GGAGGGTGACGTGGTCATGTTTGGGAAGCCACTGAGGATGAGAAGTTGCTAAGCAGGAAGATGATGAGC
 TACTGGGTAACCTTCCAGGAGTGGGGATCCTAACGGGGATGACCTGCCTCTGTGGCCAGCCTACGATC
 AGAATGAATCGTACCTGAAGCTGGATGTGAACATCAGCACTGGATGGAGACTGAAAGATCGGAGAGTGG
 ATTTTGGACAGACACCCTGCCCTGATCATGTCTGCTTCAAAGCGCTACTCAGTCCACTTTCCCTTA
 ATCCTCTTTTCGCTGCTGCCCGCTCTTCTCTCCATTGCTTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214830 representing NM_001012056
 Red=Cloning site Green=Tags(s)

MSGDWVHTGQALIWVWLWIFAAIIRGSVTEPHRYTRLGWVQKQATVLRLEPVNVFLGIPFAAPPLGPL
 RFSNPQPPIPWHDLREATTYPNVCFQNLWLFYQNLKLVHYPKLGVSEDCLYLNIIYAPAYANDGSRLPV
 MMWIPGGGFETGSASIFDGSALAAAYEDVLIVTIQYRLGIFGFNTQNQHAPGNWAFQDQLAALQWVRENI
 NYFGNPDSVTIFGGSAGAISSILSPLSAGLFHRAIMQSGVAIIPSLKNFDELKHGLQVVADVCKC
 NVSDSKVLLKCLREKSSLELLSLGQKTKAFTRVVDGSFPPEEMELLSQKTFKTVPSIIGVNNQECGYIL
 PMREAPEILFGSNESTALTLIHVLLHIPPQYMHIVAKDYFHGKHS�TDIRDLLDLFGDVFFVVPGLVTA
 RNHRDADGPVYFYEFQHRPNCFQNTTRPAFVKADHTDEIRFVGGPFLEGDVVMFEATEDEKLLSRKMMS
 YWANFARSGDPNGDDLPLWPAYDQNESYLKLDVNIISTGWRLKDRRVEFWTDLPLIMSASKALLSPTFPL
 ILFSLPPSLLSIAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001012056

ORF Size: 1725 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:

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_001012056.1](#), [NP_001012056.1](#)

RefSeq Size: 2147 bp

RefSeq ORF: 1728 bp

Locus ID: 307660

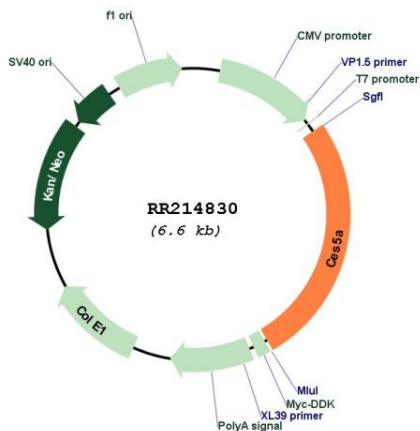
UniProt ID: [Q5GRG2](#)

Cytogenetics: 19p12

MW: 64.4 kDa

Gene Summary: Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR214830