

Product datasheet for **MR208935**

Ces1d (NM_053200) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ces1d (NM_053200) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ces1d
Synonyms:	Ces3; TGH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208935 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCCTCTACCCTCTGATATGGCTTTCTCTTGCTGCGTGCACAGCTTGGGGTACCCATCCTCACCAC
 CTGTGGTGAACACTGTTAAAGGCAAAGTCTGGGGAAGTATGTCAATTTGGAAGGATTCACACAGCCTGT
 GGCTGTTTTCTGGGAGTCCCCTTTGCCAAGCCCCCTCTTGCTCCTTGAGATTTGCTCCACCACAGCCT
 GCAGAGCCCTGGAGCTTCGTGAAGAACACCACCTCTACCCGCCTATGTGCTCTCAGGATGCTGTTGGAG
 GGCAGGTGCTCTCAGAGCTCTTACCAACAGGAAGGAGAACATTCCTTTACAGTTTTCTGAAGACTGCC
 CTACCTGAATATTTACACTCCTGCTGACTTGACAAAGAACAGCAGACTACCAGTGATGGTGTGGATCCAT
 GGAGTGGACTGGTGGTGGGCGGAGCATCCACCTATGATGGACTGGCCCTCTCTGCCATGAAAATGTGG
 TGGTGGTGACCATTCACTATCGCCTTGGCATCTGGGGATTCTTCAGCACTGGGGTGAACACAGTCGGGG
 AACTGGGGTCACTTGGACCAGGTGGCTGCACTACGCTGGTCCAGGACAACATTGCCAACTTTGGGGGC
 AACCCAGGCTCGGTGACCATCTTTGGAGAGTCAAGCAGGAGGTTTCAAGTGTCTGTCTTCTGTCTGTCTC
 CTTTGGCCAAGAACCTCTTCCACAGGGCCATTTCTGAGAGTGGTGTGCCCTCACTGCTGCTGCTGATTAC
 AACAGATGTAAGCCATTGCTGGTCTGGTTGCTACTCTTTCTGGGTGTAAAACCTACCACATCAGCTGTT
 ATGGTTCAATGCTGCGCCAGAAGACAGAGGATGAACTACTGGAGACCTCACTAAAATGAACTTTTTTA
 AACTGGACTTACTTGGAAATCCAAAAGAGAGCTATCCCTTCTCCCTACTGTGATTGATGGAGTAGTTCT
 GCCAAAGGCACCAAGAAGATCCTGGCTGAGAAGATTTCAAGCACTGTCCCCTACATAGTGGGCATCAAC
 AAGCAAGAGTTTGGCTGGATCATTCCAACGCTTATGGGCTATCCACTCGTGAAGGCAAACCTGGACCAGA
 AGACAGCCAATTTCTCTTGTGGAAAGTCTACCAACACTTAAAATCTCTGAGAATATGATCCAGTGGT
 CGCTGAGAAGTATTTAGGAGGGACAGATGACCTCACAAAAAGAAAGACCTGTTCCAGGACTTGATGGCT
 GATGTGGTATTTGGTGTCCCATCAGTGATTGTGTCTCGAAGTCACAGAGATGCTGGAGCCTCCACCTATA
 TGTATGAGTTTGTGATCGCCCAAGCTTTGTATCGGCCATGAGACCCAAGGCAGTAATAGGAGACCATGG
 TGATGAGATCTTCTCAGTATTTGGATCTCCATTTTTAAAAGATGGTGCCTCAGAAGAGGAGACCAACCTC
 AGCAAGATGGTGTGAAATTTCTGGGCCAATTTGCTCGGAATGGGAACCCCAATGGTGGAGGGCTGCCCC
 ACTGGCCAGAATATGACCAGAAGGAAGGTATCTGAAGATTGGTGCCTCAACTCAGGCAGCCAGAGGCT
 GAAGGACAAAAGTGAAGTTTTTGGGCTGAGCTCAGGGCCAAGGAGTCAAGCCAGAGGCCATCCCACAGG
 GAACATGTTGAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208935 protein sequence
 Red=Cloning site Green=Tags(s)

MGLYPLIWLSLAACTAWGYPSSPPVNTVKGKVLGKYVNLGFTQPVAVFLGVFPKPPPLGSLRFAPPQP
 AEPWSFVKNTTSYPPMCSQDAVGGQVLSLFTNRKENIPLQFSEDCLYLNITYPADLTKNSRLPVMVWIH
 GGGLVVGASTYDGLALSAHENVVVVTIQYRLGIWGFSTGDEHSRGNWGHLDQVAALRWVQDNIAFNGG
 NPGSVTIFGESAGGFSVSVLVLSPKLNLFHRAISESGVSLTAALITTDVKPIAGLVATLSGCKTTTSAV
 MVHCLRQKTEDELLETSLKLNLFKLDLLGNPKESYPFLPTVIDGVVLPKAPPEEILAEKSFSTVPYIVGIN
 KQEFGWIIPTLMGYPLAEGKLDQKTANLLWKSYPPLKISENMIPVVAEKYLGTTDDLTKKKDLFQDLMA
 DVVFGVPSVIVSRSHRDAGASTYMYEFYRPSFVSAMRPKAVIGDHGDEIFSVFGSPFLKDGASEEETNL
 SKMVMKFWANFARNGNPNGGGLPHWPEYDQKEGYLKIGASTQAAQRLKDKKEVSFWAELRAKESAQRPSHR
 EHVEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_053200

ORF Size: 1698 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_053200.2](#), [NP_444430.2](#)

RefSeq Size: 1966 bp

RefSeq ORF: 1698 bp

Locus ID: 104158

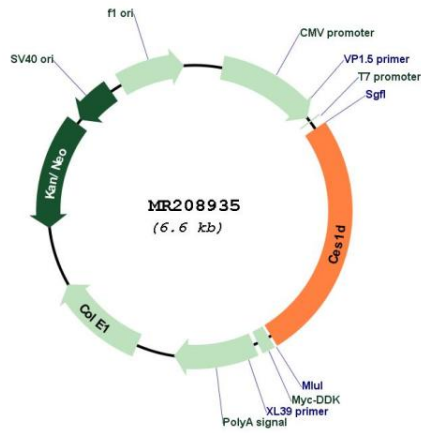
UniProt ID: [Q8VCT4](#)

Cytogenetics: 8 C5

MW: 61.8 kDa

Gene Summary: Major lipase in white adipose tissue. Involved in the metabolism of xenobiotics and of natural substrates. Hydrolyzes triacylglycerols and monoacylglycerols, with a preference for monoacylglycerols. The susceptibility of the substrate increases with decreasing acyl chain length of the fatty acid moiety. Catalyzes the synthesis of fatty acid ethyl esters. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208935