

Product datasheet for **MC200734**

Ess2 (NM_001081633) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ess2 (NM_001081633) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ess2
Synonyms:	AI462402; D16H22S1269E; Dg; Dgcr1; Dgcr14; Dgsi; ES; ES2; Es2el
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC013711 sequence for NM_001081633
 CCGACGCGTGGGTGGGATAGCGATGGGGACGCCCGGGACCTCGGCGGGTCTCTGTTTCTGTCTCCGCG
 TCCGCGCCTCAAGGAAGCGCGCGGCTGGGAGGCTGGAGAGGCCGGAGTTGCGAGAAGCAGGCAGCGGG
 TCCTGGATGAAGAAGAGTACATCGAGGGACTTCAGACAGTTATCCAGAGAGACTTCTCCCTGATGTGGA
 GAAGCTACAGGCACAGAAGGAGTACCTGGAGGCCGAGGAAAACGGAGATTGGAGCGCATGCGCCAGATT
 GCCATCAAGTTTGGCTCTGCCCTGGGCAAGATATCTCGGGAACCTCCACCACCCTATGTTACTCCAGCCA
 CCTTTGAAACTCCTGAGGTACACCCAGGCTCTGCTGTGCTGGGCAACAAGCCCCGGCCCCAGGGCCGAGA
 CCTAGATGATGGAGAGGCTGGAGAGGAAGAGGAAGGAGCCACTGCCACGCTGGATGTCTTCTTGAGC
 CAGTACACAAGTGAAGACAATGCCTCCTTCCAGGAGATCATGGAGGTGGCCAAGGAAAAAGCCATGCAC
 GGCACGCGTGGCTCTACCAGGCTGAGGAGGAATTTGAGAAGCGACAGAAAGATAATCTTGAACCTCCATC
 GGCAGAGCATCAAGCCATTGAGAGCAGTCAGGCTGGAGTGGAGACCTGGAAGTACAAGGCCAAGAACTCT
 CTCATGTACTATCCCGAGGGTGTCCCTGATGAAGAGCAGTTGTTAAGAAGCCGAGACAGATAGTACATA
 AGAACACACGTTTCTCCGAGATCCCTCAGTCAGGCTTTGAGCAGGTCCAGCTTCAGCAGGGCGGCTGC
 CCTCAATGCCAGCACAACAGGGCAAGGTCGGCCCTGACGGCAAGGAACCTATCCCCAGGAGTCCCC
 AGAGTGGGCGGCTTTGGATTTGTTGCCACTCCTTCTCCTGCTCCTGGTGTGAATGAGTCCCCACTGATGA
 CATGGGGAGAGGTTGAGAACACGCCCTGCGAGTGAAGGATCCGAGAGCCCTATGTGGACAGGACACC
 TGGACCCACATCAAGATCTTGGAGCCAGGACGACGGGAGCGTCTGGGCCTGAAGATGGCCAATGAAGCG
 GCTGCCAAAAACCGGGCGAAGAAGCAGGAAGCGTTGCGGAGAGTTACAGAGAACTTGGCCAGTCTTACTC
 CCAAAGGCTTGAGCCAGCCATGTCCCCAGCCCTACAGCGCTCGTAAGCAGGACAGCCAGCAAGTACAC
 AGATCGTGCCTGCGGGCCAGCTATACACCATCCCCAGCACGATCTTCCACCTCAAGACCCAGCTGGT
 GGGCCGCAGACACCCACAAGCACTCCAGCCCTGGGTCTGCTACACGCACACCCCTCACACAGGACCCAG
 CCTCCATCACAGACAACCTGCTGCAGCTCCCTGCCCGACGCAAAGCTTCAGACTTCTTTAGAGCCAGG
 CTGACTGGACCTGTGGATGTTTTGTGGAACACTTTGTGGAGCATCTAGGGCAGCTTCTACCACCTACAG
 GATTCAGGCCTTGGAGACACAGACCACAGTTGATTATCCAGGAGCCACAATATCTAGTGTGTTCC
 GTGGCCAGGTTGGCACATTACGCGGACCAGTCCCTTGAAGTACAGCGTTGGTGTGTTCCAGGGCCCT
 GCTGAAATGCCTTCTAGCTAACCCTCAATTGAATCCTCATTAAAGAACACCTGGAAGTGTCTGGCCAGGC
 TGCTGATCCATGTCTGGGGCCACGTGGGTGTCTCAGGGTTGGAAGCAAGGGGTGCTGGGGAGTGCCT
 TCTATGCTGAGATCACCCCGAGCCTCCCACTGTAAAGGATACCACAGACCCCAAAAGTGGAGCCATTG
 AGCTTGTGGCCCTCTAGTCAGAGCTGGCCATTCGGTTTTGTTGGTTCTGGGCTTTCGATCAGGTGTCTT
 CATATCAGGCTCACCCAGGACCAGTCTCTTCTGTGACTCGAACCAGTACCTCCAGCAACCTGGCTGCC
 TCCTGTCTCTCTCTGCTTGACCCACTGTTCTTCAGCTCTGCCTGCTGGACTCTGCTGAGACACCAGC
 TTTACCTCAGCCTGAGCTGTACTATGAAAAGAAAGAGTGCAGGCTCCCTGCAAACATGCAAATGCCATGC
 GCACCAGCAACTAAGAGTAACTAGTCCTCAGGTGACTAGAGGCCAGCTACGCCTGTTAGCCTGTGCCTAC
 AGAGAGCTGAAGGGTCCCTTCTCGGCCTAACAGAGTCAAAAATATGACCTAATCCCCAGCCTACGTAC
 GGTTTTAGGCCACAAGTGGCATCCTATGGCCGGCCCTATGTTAAGGGCAGCCTAAGCACACCAGACTT
 TTCTGACACCTGGGTCTTGCTTTGATTGCATGAGAGCCACCTTTTCTAGTCTGCTGGCATTGGGCCCTCTG
 AGGCGGGTGGGTACCTTCTCCTTGGGCCTCATACTACTTAGTTTTGTGAGTTTGTGACAGAAGCTAGA
 ATCACCTGGGAAGAAGGAACCTCAATTGAATTACCTCTCATCAGATGGGCTTACGGCATGTCTGCAGGC
 ATTTTCTTGATCGTCAATCGATGTAGGAGGGCAGTGGTCTTGGGTTGAGTCAGAAAGCCTGGGAGGAAAC
 TAGAGAGGAAGCCAGCCAGGACGTGACACTCCTTCATGGTGTCTGCTTCAGCTCCTACTGAGGTCCTGC
 TCTGGCTTCCCTCAGTGATGACTGTGATGAAAAGTGTGAGCTGAATAAACCCATTTCTCCCTAAAAA AAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_001081633
Insert Size: 1440 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).

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:	<u>BC013711, AAH13711</u>
RefSeq Size:	2813 bp
RefSeq ORF:	1440 bp
Locus ID:	27886
UniProt ID:	<u>O70279</u>
Cytogenetics:	16 11.09 cM
Gene Summary:	<p>The human ortholog of this gene is located within the minimal DGS critical region (MDGCR) thought to contain the gene(s) responsible for a group of developmental disorders. These disorders include DiGeorge syndrome, velocardiofacial syndrome, conotruncal anomaly face syndrome, and some familial or sporadic conotruncal cardiac defects which have been associated with microdeletion of human chromosome band 22q11.2. The encoded protein localizes to the nucleus, and the orthologous protein in humans co-purifies with C complex spliceosomes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. The resulting protein (isoform 2) is one aa shorter than isoform 1.</p>