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Product datasheet for SC112464

ESS2 (NM_022719) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ESS2
Synonyms:	bis1; DGCR13; DGCR14; DGS-H; DGS-I; DGSH; DGSI; ES2; Es2el; ESS-2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC112464 sequence for NM_022719 edited (data generated by NextGen Sequencing)

ATGGAGACGCCGGGCGCATCAGCGTCGTCCTTGTTGCTTCCCGCCGCGTCCAGGCCCCCG
AGGAAGCGCGAGGCGGGAGAGGCTGGGGCTGCGACGAGCAAGCAGCGGGTCCTGGACGAG
GAAGAGTATATCGAGGGCCTCCAGACGGTCATCCAAAGGGATTTCTTTCCTGATGTGGAG
AAGCTCCAGGCACAGAAGGAGTACCTGGAAGCCGAGGAGAATGGAGACTTGGAACGGATG
CGCCAGATTGCCATCAAGTTTGGCTCTGCCTTGGGCAAGATGTCCCGGGAGCCCCCGCCA
CCCTATGTGACTCCAGCCACATTTGAAACCCCTGAGGTGCATGCAGGCACTGGAGTGGTG
GGCAACAAGCCCAGGCCCCGCGGCCGAGGCCTGGAGGATGGAGAGGCTGGAGAGGAGGAG
GAGAAGGAGCCGCTGCCCAGCCTAGATGTCTTCCTGAGCCGCTACACGAGTGAGGACAAT
GCCTCCTTCCAGGAGATCATGGAGGTGGCCAAGGAGAGAAGCCGGGCACGCCACGCTTGG
CTCTACCAGGCTGAGGAAGAGTTTGAGAAGAGGCAGAAAGATAATCTCGAACTCCCGTCA
GCAGAGCACCAGGCCATCGAGAGCAGCCAGGCCAGTGTGGAGACCTGGAAGTACAAGGCC
AAGAATTCCCTCATGTACTATCCAGAGGGTGTCCCTGACGAGGAGCAGCTGTTTAAGAAG
CCCCGGCAGGTGGTACATAAGAACACGCGCTTCCTTAGGGACCCCTTCAGCCAAGCCCTG
AGCAGGTGCCAGCTCCAGCAGGCAGCCGCCCTCAATGCCCAGCACAAACAGGGCAAGGTG
GGCCCCGATGGCAAGGAGCTGATCCCCCAGGAGTCCCCTCGAGTGGGTGGATTTGGATTT
GTTGCCACTCCTTCCCCTGCCCCTGGTGTGAACGAGTCCCCGATGATGACCTGGGGGGAG
GTTGAGAACACACCCTTGAGAGTTGAAGGGTCGGAAACGCCCTACGTGGACAGGACACCC
GGCCCAGCTTTTAAGATCCTGGAGCCAGGCCGCAGGGAACGGCTGGGTCTGAAGATGGCC
AACGAGGCCGCTGCCAAGAACCGGGCCAAGAAGCAGGAAGCCTTGCGGAGAGTGACGGAG
AATCTGGCCAGCCTCACCCCCAAAGGCCTGAGCCCAGCCATGTCGCCAGCCCTACAGCGC
CTTGTGAGCAGGACGGCCAGCAAGTACACAGACCGGGCCCTGCGGGCCAGCTACACACCA
TCCCCAGCACGCTCCACCCACCTCAAGACCCCGGCCAGTGGGCTGCAGACCCCCACAAGC
ACACCGGCGCCTGGCTCTGCCACACGCACCCCTCTCACACAGGACCCGGCCTCCATCACG
GACAACCTGCTGCAGCTCCCTGCCCGGCGCAAAGCTTCGGACTTCTTTTAG

Clone variation with respect to NM_022719.2
1059 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022719 unedited
NGGGTACGGATTTTGTAATACGATCTCACTATAGGGCGGCCGCGAATTCGCACCAGGCGA
TGGAGACGCCGGGCGCATCAGCGTCGTCCTTGTTGCTTCCCGCCGCGTCCAGGCCCCCGA
GGAAGCGCGAGGCGGGAGAGGCTGGGGCTGCGACGAGCAAGCAGCGGGTCCTGGACGAGG
AAGAGTATATCGAGGGCCTCCAGACGGTCATCCAAAGGGATTTCTTTCCTGATGTGGAGA
AGCTCCAGGCACAGAAGGAGTACCTGGAAGCCGAGGAGAATGGAGACTTGGAACGGATGC
GCCAGATTGCCATCAAGTTTGGCTCTGCCTTGGGCAAGATGTCCCGGGAGCCCCCGCCAC
CCTATGTGACTCCAGCCACATTTGAAACCCCTGAGGTGCATGCAGGCACTGGAGTGGTGG
GCAACAAGCCCAGGCCCCGCGGCCGAGGCCTGGAGGATGGAGAGGCTGGAGAGGAGGAGG
AGAAGGAGCCGCTGCCCAGCCTAGATGTCTTCCTGAGCCGCTACACGAGTGAGGACAATG
CCTCCTTCCAGGAGATCATGGAGGTGGCCAAGGAGAGAAGCCGGGCACGCCACGCTTGGC
TCTACCCAGGCTGAGAAGAGTTTGAGAAGAGGCAGAAAGATAATCTCGAACTCCCGTCAG
CAGAGCACCAGGCCATCGAGAGCAGCCAGGCCAGTGTGGAGACCTGGNAGTACCAGGCCA
AGAATTCCCTCATGTACTATCCAGAGGGTGTCCCTGACGAGGAGCAGCTNGTTAAGAAGC
CCCGCCAGTGGTACATAAGACACGCGGCTTNCTTAGGGACCCCTTCAGCCAGCCCTGAGC
AGGTGCCAGCTCAGCAGGCAGGCGGCCTCATGCCCANACAAAACGGGCAGTTGGGGCCCC
GATGGCAGGAGCTGATCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022719 unedited
GTTAATTCCTTTTTTTTTTTTTTTTGGACCTAGGTGTTCTTTAATGACAGTTCAAGGGGCC
AATTAAACAGCAAACAGCTTGGCAAGGCCCTGGGGTGTGGTGTGGGCACGATTGCCTTGT
GCCAGTCTGGCCCCAGCACAGCCCCTTTCTCCAGTGACTCCTGGTATGGTCAACAGCTTC
TGGCCCAGGCCTGGGCCCCGAGAAGGCTGGAGTCCTCTGCTGGGTGTACAGCTGCCCTGC
AGGCTCTGTGAAGCGTCTATGAGCCCAGCCCAAGCCTGGCTCTAAAAGAAGTCCGAAGCT
TTGCGCCGGGCAGGGAGCTGCAGCAAGTTGTCCGTGATGGAAGCCGGGTCCTGTGTGATA
AGGGTGCGTGTGGCATATCCAGGCGCCGGTGTGCTTGTGGGGGTCTGCAGCCCACTGGCC
GGGGTCTTGAAGTGGGTGGAGCGTGCTGGGGATGGTGTGTAGCTGGCCCGCAGGGCCCGG
TCTGTGTACTTGCTGGCCGTCCTGCTCACAAAGCGCTGTAAGGCTGGCGACATGGCTGGG
CTCAAGCCTTTGGGGGTGAGGCTGGCCAGATTCTCCGTCACTCTCCGCAAGGCTTCCTGC
TTCTTGGCCCGGTTCTTGGCAGCGGCCTCGTTGGCCATCTTCAGACCCAGCCGTTCCCTG
CGGCCTGGCTCCAGGATCTTAAAAGCTGGGCCCGGTGTCCTAGTCACGTANGGCGTTTTC
GACCCTTTCACTCTCAAAGGGTGTGTTCTCCACCCTCCCCCCAGTCATTCATCGGGGACT
CGTTTCACACCAGGGGCAGGGGAAAGGANTGGCAACNAATTCCAATTCCACCCACTCCAG
GGG

Restriction Sites: NotI-NotI

ACCN: NM_022719

Insert Size: 1750 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:
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_022719.1, NP_073210.1

RefSeq Size: 1698 bp

RefSeq ORF: 1431 bp

Locus ID: 8220

UniProt ID: Q96DF8

Cytogenetics: 22q11.2

Gene Summary: 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 22q11.2. The encoded protein may be a component of C complex spliceosomes, and the orthologous protein in the mouse localizes to the nucleus. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2015] Transcript Variant: This variant (1) represents the protein-coding transcript.