

Product datasheet for **SC303093**

NG2 (CSPG4) (NM_001897) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NG2 (CSPG4) (NM_001897) Human Untagged Clone
Tag:	Tag Free
Symbol:	NG2
Synonyms:	CSPG4A; HMW-MAA; MCSP; MCSPG; MEL-CSPG; MSK16; NG2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001897 edited
 GAATTCATGCAGTCCGGGCCGCGCCCCCACTTCCAGCCCCGGCCTGGCCTTGGCTTTG
 ACCCTGACTATGTTGGCCAGACTTGCATCCGCGGCTTCTTTCGGTGAGAACCACCTG
 GAGGTGCCTGTGGCCACGGCTCTGACCGACATAGACCTGCAGCTGCAGTTCTCCAGTCC
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 CGCCTGGGCCTGACACCAGAGGCCACCAATGCCTCCCTGCTGGGCTGCATGGAAGACCTC
 AGTGTCAATGGCCAGAGCGGGGGCTGCGGGAAGCTTTGCTGACGCGCAACATGGCAGCC
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 CATGGCAGCCTCATGGTGATCCTGGAACACACGCAGAAGCCGCTGGGGCCTGAGGTTTTT
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CCGAGGCCACTGCGGTGCCAGTGCCCCCTGAGGACTAGGGCAGGCAGCTGGGGCACTT
GGTTCCATGGAGCCTGGATAAACAGTGCTTTGGAGGCTCTGGAAAAAAAAAAAAAAAAA
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**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_001897 unedited
GGTAACTGATTTGTATACGACTCTATAGGGCGCCGCGATATTCATGCAGTCCGGGCCG
CGGCCCCACTTCCAGCCCCCGGCTGGCCTTGGCTTTGACCCTGACTATGTTGGCCAGA
CTTGACATCCGCGGCTTCCTTCTCGGTGAGAACCACCTGGAGGTGCCTGTGGCCACGGCT
CTGACCGACATAGACCTGCAGCTGCAGTTCTCCACGTCCCAGCCGAAGCCCTCCTTCTC
CTGGCAGCAGGCCAGCTGACCACCTCCTGCTGCAGCTCTACTCTGGACGCCTGCAGGTC
AGACTTGTCTGGGCCAGGAGGAGCTGAGGCTGCAGACTCCAGCAGAGACGCTGCTGAGT
GACTCCATCCCCACACTGTGGTGTGACTGTGCGTAGAGGGCTGGGCCACGTTGTCAGTC
GATGGGTTTCTGAACGCCTCCTCAGCAGTCCCAGGAGCCCCCTAGAGGTCCCCTATGGC
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CTAGAGTTTACACTCACCACACAGAGCCCGGCAGGCACCCTTGGCCTTCCAGGCAGGGGC
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AAGGCCAGGGTACCGTATTGCTCACAACAGTGTGCTGTGGCCGATGGGCAGCCCATGAG
TCAGTGCACATCAATGCTCACCGGCTGGAATCTTCGTGGAACCACTACCTACG

**3' Read Nucleotide
Sequence:**

>OriGene 3' read for NM_001897 unedited
CGCAGATGCACCTCAGGGCCGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGG
ATCTGTTCCAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTCCAGAGCCTCCAAAGCACTGTTTATCCAGGCTCCATGGAACC
AAGTGCCCCAGCTGCCTGCCCTAGTCCTCAGGGGGCACTGGCACCCGAGTGGCCTCGG
CCTGAGACCCTCGATGAGCCCCAGCCTAACCTGCTCCAAAGCACTGACACATGCATGTT
TAGCCCTTGGCCATCAAGATGGGGCCCTGGGAATGAACTGGCTGCAAACCTCCTCCAT
CCCACACCCCAAGGGCTCCATCAGTCCTGGCTAGCTCAGCACCATGTTAAATAGCTTCC
TTGCAATCTCCCTAAATAAACCCATCCCCAGAGCAACCTACCCACCCTGCACCCTGAAT
ATATTATCCTATTGGCTTATGCCTTCTAGACTGGAGGCGCTCTCTCCTTGGCCCTAC
TCCAGGGGATACCATCTCCCTAAAAACCAGGGGAGGAAGTTTTTTTTCTCAACTCTGGG
GCAGAGACAAAGGGTGGCCTGGGTTGGAGTGAAAAGCCAGGAATAGCTTCTCTGTCCC
TTCCCTCCCAGGGTACTTCCTTCTCCTTGGCCCTTAGCAGCCTGGGTCAGGCGCGACT
TACCAAGGTCACAGACCAGGACCCAGAGTCATGACCCATGTAGAGGTTACCCTGGTTT
TGACAGCCAAACCAGCTCAGGGCAGGAGGACTGAACTTAGCCTGCCTCACCTTGCCTGC
AGTTCTCAGCTCGGAGTGAGCTGAGGGAGGTTACGCTCTTGACTCCACTCTGTCCCGGAC
CCTGGGACTAT

Restriction Sites:

Please inquire

ACCN:

NM_001897

Insert Size:

8000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa and insertion of 1 aa.

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_001897.3](#), [NP_001888.2](#)

RefSeq Size: 7896 bp

RefSeq ORF: 6969 bp

Locus ID: 1464

UniProt ID: [Q6UVK1](#)

Cytogenetics: 15q24.2

Protein Families: Transmembrane

Gene Summary: A human melanoma-associated chondroitin sulfate proteoglycan plays a role in stabilizing cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes. CSPG4 represents an integral membrane chondroitin sulfate proteoglycan expressed by human malignant melanoma cells. [provided by RefSeq, Jul 2008]