

Product datasheet for **SC304087**

Opticin (OPTC) (NM_014359) Human Untagged Clone

Product data:

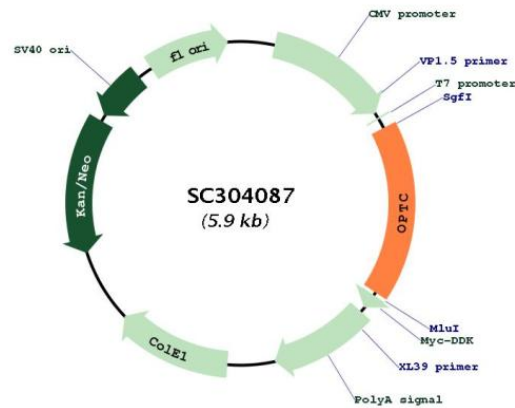
Product Type:	Expression Plasmids
Product Name:	Opticin (OPTC) (NM_014359) Human Untagged Clone
Tag:	Tag Free
Symbol:	OPTC
Synonyms:	OPT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304087 representing NM_014359. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGGCTCCTGGCTTTCTGAGTCTGCTGGCCTTGGTGTGTCAGGAGACAGGGACAGCTTCTCTCCCA
AGGAAGGAGAGGAAGAGGAGAGAGGAGCAGATGCCAGGGAAGGCGATTCTTTGAAGTTCTGCCTCTG
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GATTATGGGGACCACTCCCGAGGTTAAGGTGACTAGCCTCGCTCCTGCAACCAGCATCAGTCCCGCC
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TTCAACCGCATCAGCCGTATCAGGGCCGAAGACTTCAAAGGGCTGACAAAGTTGAAGAGGATTGACCTC
TCCAACAACCTCATTTCTCCATCGATAATGATGCCTTCCGCCTGCTACATGCCCTCCAGGACCTCATC
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AATCGGCTCCAGAGCTCGGGGATACAGCCTGCAGCCTTCAAGGCAATGGAGAAGCTGCAGTTCTTTAC
CTGTCAGACAACCTGCTGGATTCTATCCCGGGGCTTTGCCCTGAGCCTGCGCTCTGTACACCTGCAG
AATAACCTGATAGAGACCATGCAGAGAGACGTTCTGTGACCCCGAGGAGCACAACACACCCCGCAGG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_014359

Insert Size: 999 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_014359.3](#)

RefSeq Size: 1444 bp

RefSeq ORF: 999 bp

Locus ID: 26254

UniProt ID: [Q9UBM4](#)

Cytogenetics: 1q32.1

Protein Families: Secreted Protein

MW: 37.3 kDa

Gene Summary: Opticin belongs to class III of the small leucine-rich repeat protein (SLRP) family. Members of this family are typically associated with the extracellular matrix. Opticin is present in significant quantities in the vitreous of the eye and also localizes to the cornea, iris, ciliary body, optic nerve, choroid, retina, and fetal liver. Opticin may noncovalently bind collagen fibrils and regulate fibril morphology, spacing, and organization. The opticin gene is mapped to a region of chromosome 1 that is associated with the inherited eye diseases age-related macular degeneration (AMD) and posterior column ataxia with retinosa pigmentosa (AXPC1). [provided by RefSeq, Jul 2008]