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Product datasheet for SC305034

NYX (NM_022567) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NYX (NM_022567) Human Untagged Clone
Tag:	Tag Free
Symbol:	NYX
Synonyms:	CLRP; CSNB1; CSNB1A; CSNB4; NBM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC305034 representing NM_022567.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAAGGCCGAGGGATGTTGGTCCTGCTTCTGCATGCGGTGGTCCTCGGCCTGCCCAGCGCCTGGGCC
GTGGGGGCCTGCGCCCGCGCTTGTCCCGCCGCCTGCGCCTGCAGCACCGTGGAGCGCGGCTGCTCGGTG
CGCTGCGACCGCGCGGGCCTCCTGCGGGTGCCGGCCGAGCTCCCGTGCGAGGCGGTCTCCATCGACCTG
GACCGGAACGGCCTGCGCTTCCTGGGCGAGCGAGCCTTCGGCACGCTGCCGTCCTTGCGCCGCCTGTCG
CTGCGCCACAACAACCTGTCCTTCATCACGCCCGGCGCCTTCAAGGGCCTGCCGCGCCTGGCTGAGCTG
CGCCTGGCGCACAACGGCGACCTGCGCTACCTGCACGCGCGCACCTTCGCGGCGCTCAGCCGCCTGCGC
CGCCTAGACCTAGCAGCCTGCCGCCTCTTCAGCGTGCCCGAGCGCCTCCTGGCCGAACTGCCGGCCCTG
CGCGAACTCGCCGCCTTCGACAACCTGTTCCGCCGCGTGCCGGGCGCGCTGCGCGGCCTGGCCAACCTG
ACGCACGCGCACCTGGAGCGCGGCCGCATCGAGGCGGTGGCCTCCAGCTCGCTGCAGGGCCTGCGCCGC
CTGCGCTCGCTCAGCCTGCAGGCCAACCGCGTCCGTGCCGTGCACGCTGGCGCCTTCGGGGACTGTGGC
GTCCTGGAGCATCTGCTGCTCAACGACAACCTGCTGGCCGAGCTCCCGGCCGACGCCTTCCGCGGCCTG
CGGCGCCTGCGCACGCTCAACCTGGGTGGCAACGCGCTGGACCGCGTGGCGCGCGCCTGGTTCGCTGAC
CTGGCCGAGCTCGAGCTGCTCTACCTGGACCGCAACAGCATCGCCTTCGTGGAGGAGGGCGCCTTCCAG
AACCTCTCGGGTCTCCTCGCGCTGCACCTCAACGGCAACCGCCTCACCGTGCTCGCCTGGGTCGCCTTC
CAGCCCGGCTTCTTCCTGGGCCGCCTCTTCCTCTTCCGCAACCCGTGGTGCTGCGACTGCCGTCTGGAG
TGGCTGAGGGACTGGATGGAGGGCTCCGGACGTGTCACCGACGTGCCGTGCGCCTCCCCGGGCTCCGTG
GCCGGCCTGGACCTCAGCCAGGTGACCTTCGGGCGCTCCTCCGATGGCCTCTGTGTGGACCCCGAGGAG
CTGAACCTCACCACGTCCAGTCCAGGCCCGTCCCCAGAACCAGCGGCCACCACCGTGAGCAGGTTCAGC
AGCCTCCTCTCCAAGCTGCTGGCCCCGAGGGTCCCGGTGGAGGAGGCGGCCAACACCACTGGGGGGCTG
GCCAACGCCTCCCTGTCCGACAGCCTCTCCTCCCGTGGGGTGGGAGGCGCGGGCCGGCAGCCCTGGTTT
CTCCTCGCCTCTTGTCTCCTGCCCAGCGTGGCCCAGCACGTGGTGTTTGGCCTGCAGATGGACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_022567

Insert Size: 1446 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_022567.2
RefSeq Size:	2629 bp
RefSeq ORF:	1446 bp
Locus ID:	60506
UniProt ID:	Q9GZU5
Cytogenetics:	Xp11.4
Protein Families:	Secreted Protein, Transmembrane
MW:	52 kDa
Gene Summary:	The product of this gene belongs to the small leucine-rich proteoglycan (SLRP) family of proteins. Defects in this gene are the cause of congenital stationary night blindness type 1 (CSNB1), also called X-linked congenital stationary night blindness (XLCSNB). CSNB1 is a rare inherited retinal disorder characterized by impaired scotopic vision, myopia, hyperopia, nystagmus and reduced visual acuity. The role of other SLRP proteins suggests that mutations in this gene disrupt developing retinal interconnections involving the ON-bipolar cells, leading to the visual losses seen in patients with complete CSNB. [provided by RefSeq, Oct 2008]