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GenBank: GU045593.1

Synthetic construct Arch gene, complete cds

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LOCUS GU045593 777 bp DNA linear SYN

06-JAN-2010

DEFINITION Synthetic construct Arch gene, complete cds.

ACCESSION GU045593

VERSION GU045593.1 GI:282892260

KEYWORDS .

SOURCE synthetic construct

ORGANISM [synthetic construct](#)

other sequences; artificial sequences.

REFERENCE 1 (bases 1 to 777)

AUTHORS Chow,B., Han,X., Dobry,A., Qian,X., Chuong,A., Li,M.,

Henninger,M.,

Monahan,P. and Boyden,E.

TITLE High-Performance Genetically-Targetable Optical Neural

Silencing

via the Class of Light-Driven Proton Pumps

JOURNAL Nature (2010) In press

REFERENCE 2 (bases 1 to 777)

AUTHORS Chow,B., Han,X., Dobry,A., Qian,X., Chuong,A., Li,M., Henninger,M.,

Monahan,P. and Boyden,E.

TITLE Direct Submission

JOURNAL Submitted (28-SEP-2009) MIT, Media Lab, BCS, BE, E15-430, 20 Ames

St., Cambridge, MA 01242, USA

FEATURES Location/Qualifiers

source

1..777

/organism="synthetic construct"

/mol_type="other DNA"

/db_xref="taxon:32630"

/note="derived from Halorubrum sodomense"

1..777

/note="light-driven proton pump; aR-3; archaerhodopsin-3; mammalian codon-optimized"

/codon_start=1

/transl_table=11

/product="Arch"

/protein_id="ADB03110.1"

/db_xref="GI:282892261"

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LLLDLALLAKVDRVTIGTLVGVDAIMIVTGLIGALSHTAIARYSWWLFSTICMIVVLY

FLATSLRSAAKERGPEVASTFNLTALVVLVLTAYPILWIIIGTEGAGVVGLGIETLLF

MVLDVTAKVGFIFILLRSRAILGDTAPEPSAGADVSAAD"

[CDS](#)

ORIGIN

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```

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721 ggcgacaccg aggcaccaga acccagtgcc ggtgccgatg tcagtgccgc cgactaa  
//
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