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GenBank: GU045597.1

Synthetic construct ss-Prl-Arch gene, complete cds

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LOCUS GU045597 948 bp DNA linear SYN

06-JAN-2010

DEFINITION Synthetic construct ss-Prl-Arch gene, complete cds.

ACCESSION GU045597

VERSION GU045597.1 GI:282892270

KEYWORDS .

SOURCE synthetic construct

ORGANISM [synthetic construct](#)

other sequences; artificial sequences.

REFERENCE 1 (bases 1 to 948)

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 948)

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..948

/organism="synthetic construct"

/mol_type="other DNA"

/db_xref="taxon:32630"

/note="derived from Halorubrum sodomense"

1..948

/note="aR-3; archaerhodopsin-3; mammalian codon-optimized; flanked with enhanced trafficking sequences"

/codon_start=1

/transl_table=11

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/protein_id="ADB03115.1"

/db_xref="GI:282892271"

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KDAREYYAVTILVPGIASAAYLSMFFGIGLTEVTVGGEMLDIYYARYADWLF"TPLLL

LDLALLAKVDRVTIGTLVGVDALMIVTGLIGALSHTAIARYSWWLFSTICMIVVLYFL

ATSLRSAAKERGPEVASTFNTLTALVVLVLTAYPILWIIGTEGAGVVGLGIETLLFMV

LDVTAKVGFGEFILLRSRAILGDEAPEPSAGADVSAADR"

ORIGIN

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661 tcctgcat ctgctgcaa ggagcgggc cccgaggtg catctacct taacaccctg
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841 gccaaagtcg gctttggctt tatcctgttg agatcccggg ctattctggg cgacaccgag
901 gcaccagaac ccagtgcggg tgccgatgtc agtgccgccc accgataa
```

//

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