

Table S4. Putative new open reading frames (ORFs) identified by SILAC-based MS.

ORF ID ¹	Position ²	Replicon	Strand	Detected aa-seq ³	RNA-seq ⁴
ID-19ORF-14558	3019891..3020211	Chr 1	Plus	AIDACETRQAAAK ARSMAAAISK VAMAQGRTPPEIASI	yes
ID-19ORF-3983	798262..798396	Chr 1	Plus	EEAVYVEQPAVTTEPVYTGK KEEAVYVEQPAVTTEPVYTGK	yes
ID-22ORF-3245	2491636..2491836	Chr 1	Minus	AQRNPAMDAIK EEIARISQA HETISTSVEK IKEEIARISQA	yes
ID-23ORF-6817	1704578..1704952	Chr 1	Minus	IIAAMNAGSRIK TRRVEGSAYEYESD	(yes)
ID-24ORF-1183	2930079..2930258	Chr 1	Minus	TYVGYPIPSK VMVRVDEK VMVRVDEKTYVGYPIPSKRAA	yes
ID-24ORF-7452	1618890..1619105	Chr 1	Minus	AAPAKPRPGAPEAGPQAGGARSAAK PRPGAPEAGPQAGGARSAAK RIFTGRGPK	(yes)
ID-24ORF-8403	1411515..1412336	Chr 1	Minus	FQPIPIWK MVSIDSWSVK (NAAVPNAIRVYFRTAPFK)	no
ID-23ORF-10842	879464..879868	Chr 1	Minus	AVSAIVVPARGDWSTAAPK AVSAIVVPARGDWSTAAPKK	yes
ID-24ORF-3701	2370426..2370683	Chr 1	Minus	ARAAREAGPGDAPE GPAAESREDRIK	yes
ID-30ORF-1184	723678..723917	Chr 2	Minus	GETPITIAGK GETPITIAGKK VVETASYTK	no
ID-29ORF-1154	709835..710188	Chr 2	Minus	INQGRSISTNVDDAVK KINQGRSISTNVDDAVK	yes
ID-29ORF-854	753206..753412	Chr 2	Minus	AAIQERAINSSARA DDGSIIIMK	yes
ID-33ORF-485	82294..82856	Plasmid A	Plus	AIVRTFASQVAERTPK AIVRTFASQVAERTPKK APRATPTPRRRQSPSSEDK APRYTIRITVEAK DPVPTDMPNRIAADASAAPVVAADQPEIARGETNPVGK GIITRAGGSPISFRK IPDSIRAAIIAVEGANPIEPAGTAISRNIAPVFAAFVRK KAEYVPTDPVVYRIDIK VIEEIDRIIGDMDDK	(yes)
ID-36ORF-259	66453..66806	Plasmid A	Minus	KMQDVIASVVRTMK MQDVIASVVRTMK RISVDEVRAIK SVHIRIDPEVFRFFK	yes
ID-36ORF-125	87675..88235	Plasmid A	Minus	ATREFVRENNRFAAIVANGIQNFIGMPK YEIIRQK	yes
ID-12ORF-430	39639..39851	Plasmid C	Minus	AAIIEYRIK ASAIREIIERK	(yes)
ID-15ORF-21	3552..4511	Plasmid D	Plus	DPVRVSIEIRIPIAFANK IIADGMK IIADGMKK KVPRYTPK VPRYTPK	yes
ID-13ORF-467	66469..67086	Plasmid D	Plus	QVRYEPRIIK SSVTVPIRPEVRNQREIWDIVISYGSK TWPGIASFVTQYTPEK	yes
ID-41ORF-21	32681..33253	Plasmid E	Minus	EYGVDSVK TNVPENNAIIVINGSEVSTAIHRQNK	yes

¹ Identifier for ORFs according to *Rhodobacter sphaeroides* 2.4.1 ORF database.

² Position of ORF query sequence on particular replicon, referring to plus-strand orientation.

³ Amino acid (aa) sequence detected by mass spectrometry.

⁴ Presence of cDNA reads, potentially representing the mRNA of a new ORF, in RNA-seq data for *R. sphaeroides* 2.4.1 (yes: clear cDNA read coverage, (yes): weak cDNA read coverage, no: no cDNA read coverage above background).