

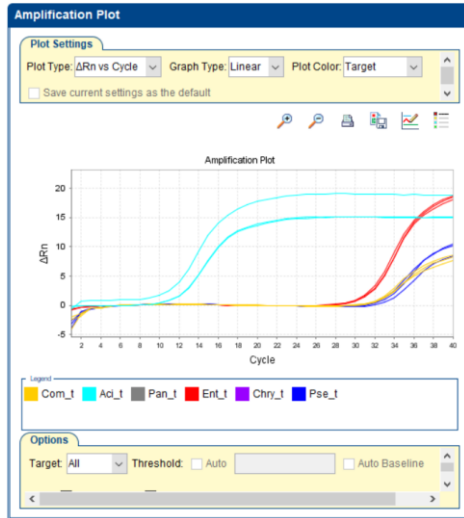
Supplementary information S1

Plasmid: PMD19T

Competent cell: E.coli DH5 α

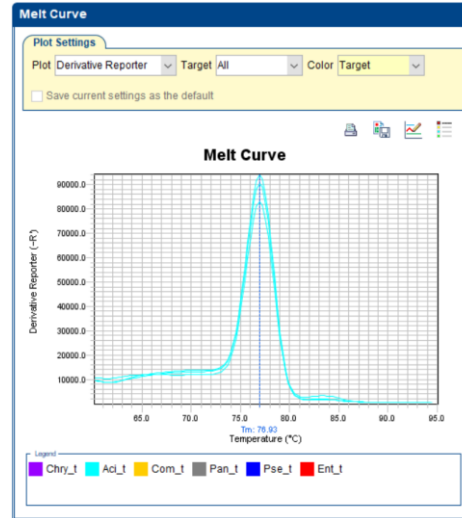
Primers: Aci_F, Aci_R

Amplification plot



Legend: DNA template

Melt curve



Template: genomic DNA of Aci

Aci_F: ATTTAGTATCTGGTGAAGTCATCCGTA

Aci_R: CCGACAAATAAAGCTTGAGTAACTCC

Product length: 92 bp

Target gene:

>|c|NZ_CP046536.1_cds_WP_000428564.1_58 [locus_tag=GOD87_RS00290]

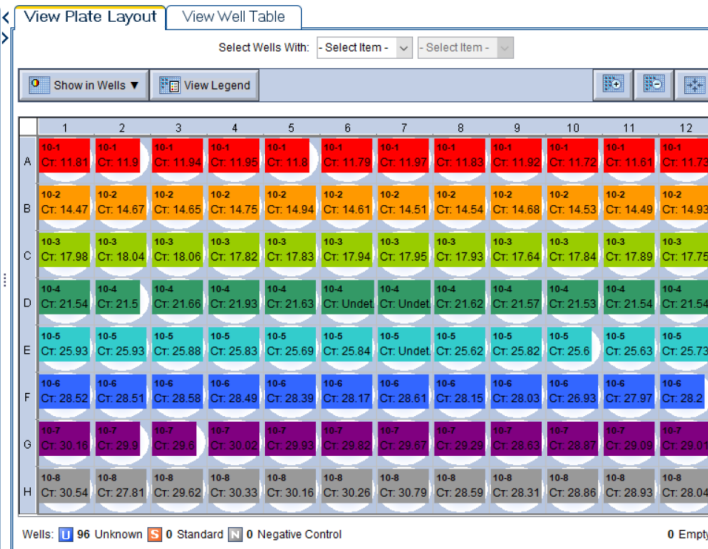
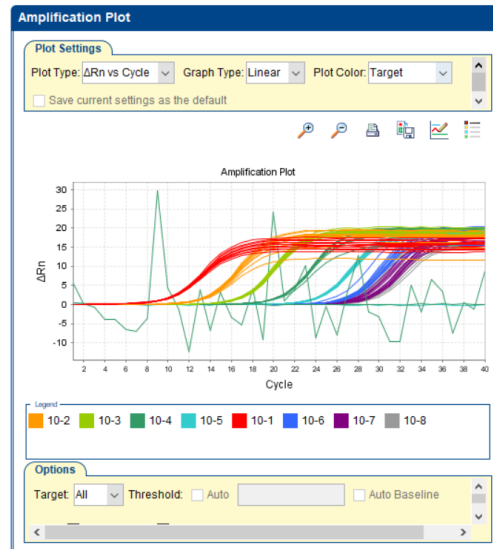
[protein=DUF1003 domain-containing protein] [protein_id=WP_000428564.1] [location=61045..61746] [gbkey=CDS]

Standard curve:

$\lg[\text{DNA copies}]/\mu\text{l} = -0.2906 \cdot \text{CT} + 11.94$

Standard curve

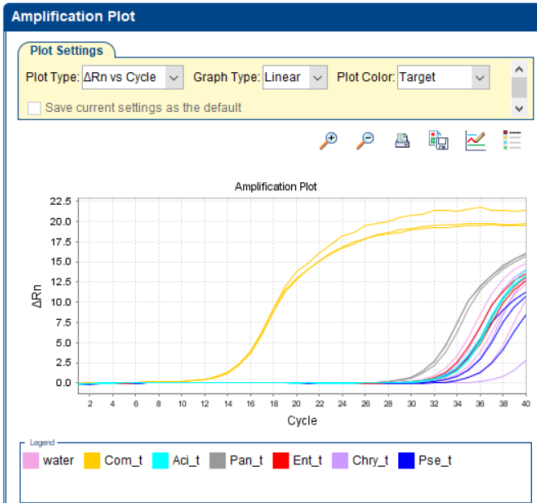
Template: plasmid containing Aci fragment



Concentration of DNA template decrease by tenfold

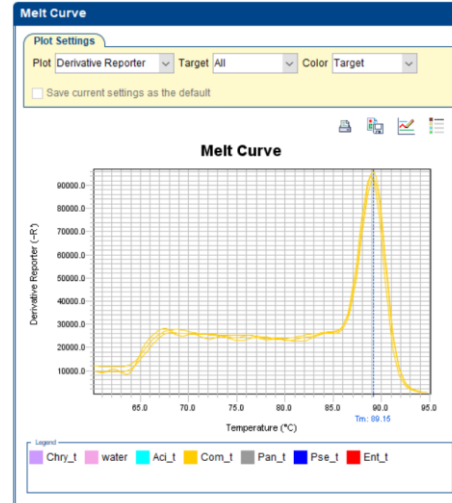
Primers: Com_F, Com_R

Amplification plot



Legend: DNA template

Melt curve



Template: genomic DNA of **Com**

Com_F: CTCAAAACCAGTGTGATCGTGGAA

Com_R: TATTGCCCATCAGCAGAGTGTAGC

Product length: 109 bp

Target gene:

>|cl|NZ_CP083451.1_cds_WP_224152861.1_192 [locus_tag=LAD35_RS00960]

[protein=tripartite tricarboxylate transporter substrate binding protein]

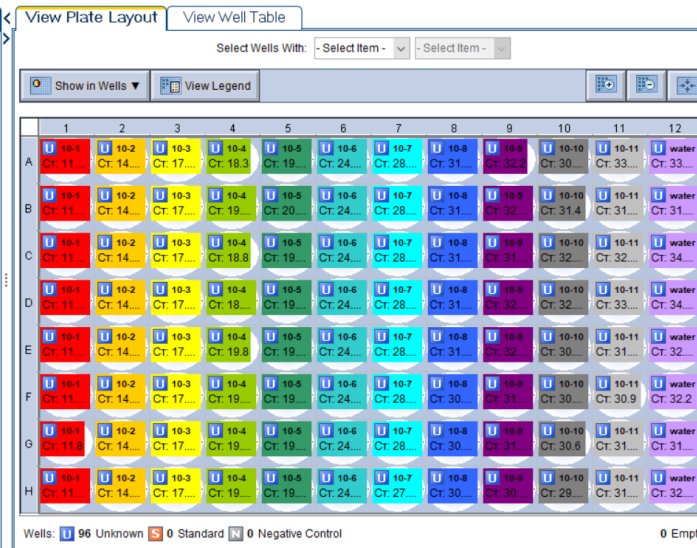
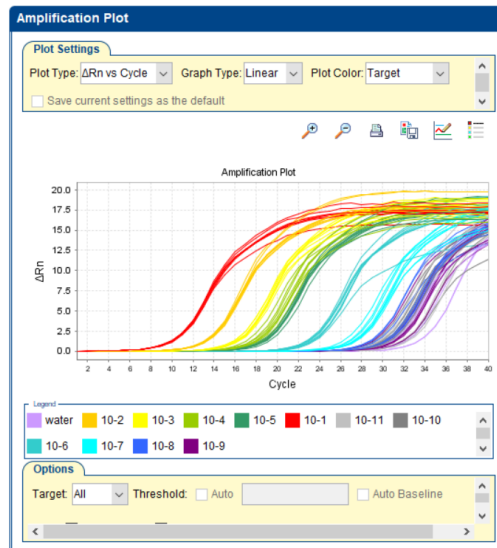
[protein_id=WP_224152861.1]

Standard curve:

$\lg[\text{DNA copies}]/\mu\text{l} = -0.2799 \cdot \text{CT} + 12.5295$

Standard curve

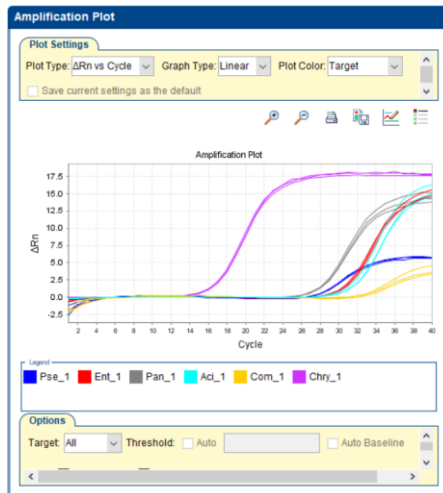
Template: plasmid containing **Com** fragment



Concentration of DNA template decrease by tenfold

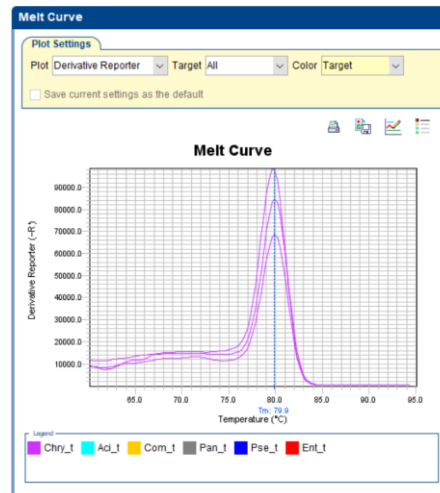
Primers: Chr_F, Chr_R

Amplification plot



Legend: DNA template

Melt curve



Template: genomic DNA of Chr

Primer information:

Chr_F: GAACATCAGTTATCTTGAGCGGTA

Chr_R: CATAACAGGCTCCCATTCTATTGTG

Product length: 94 bp

Target gene:

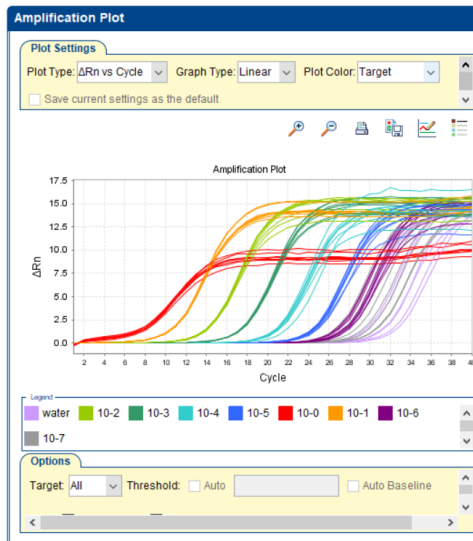
>|cl|NZ_CP084347.1_cds_WP_225717821.1_11 [locus_tag=KB553_RS00055] [protein=MFS transporter] [protein_id=WP_225717821.1] [location=9574..11166] [gbkey=CDS]

Standard curve:

$\lg[\text{DNA copies}]/\mu\text{l} = -0.2962 \cdot \text{CT} + 12.480$

Standard curve

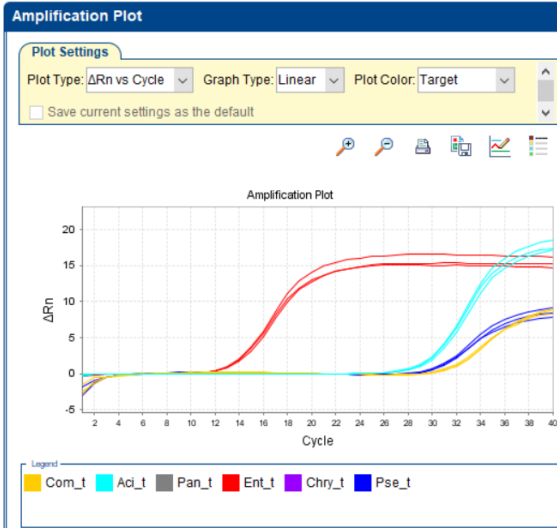
Template: plasmid containing Chr fragment



Concentration of DNA template decrease by tenfold

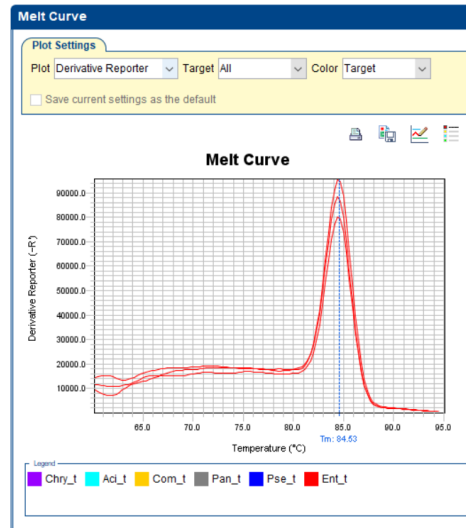
Primers: Ent_F, Ent_R

Amplification plot



Legend: DNA template

Melt curve



Template: genomic DNA of **Ent**

Ent_F: AGCGTTACAGCAGCTACAGGATATTCACC

Ent_R: CTTTTCACCATCACCCCATCCCTCGGTA

Product length: 95 bp

Target gene:

>|cl|NZ_CP083403.1_cds_80

[locus_tag=K9O83_RS00400] [protein=class I

SAM-dependent methyltransferase]

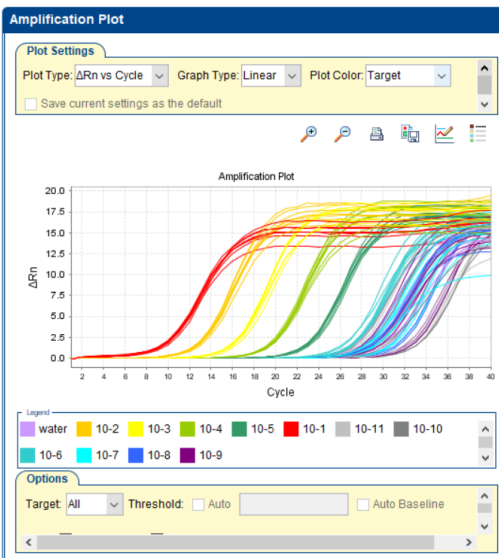
[pseudo=true] [partial=5']

[location=<76927..77040] [gbkey=CDS]

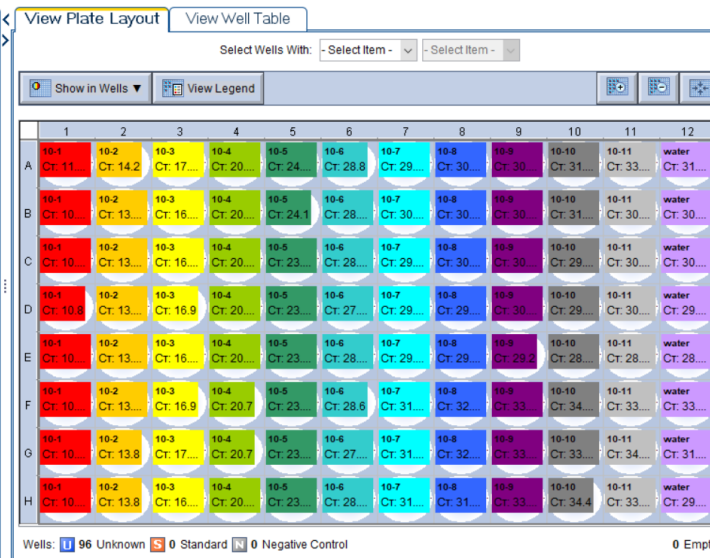
Standard curve:

$\lg[\text{DNA copies}]/\mu\text{l} = -0.3028 \cdot CT + 12.5307$

Standard curve



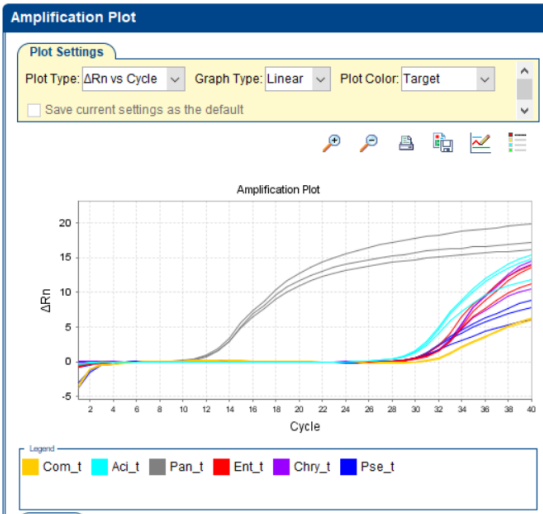
Template: plasmid containing **Ent** fragment



Concentration of DNA template
decrease by tenfold

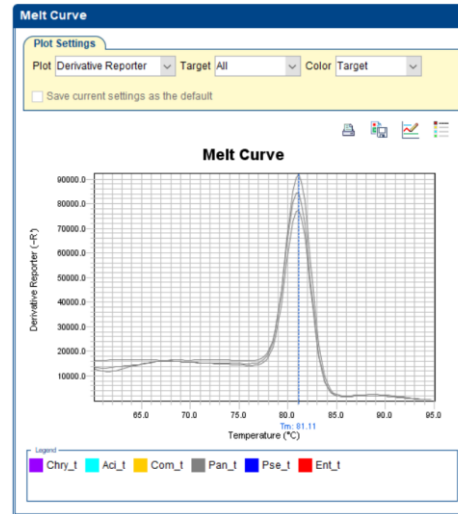
Primers: Pan_F, Pan_R

Amplification plot



Legend: DNA template

Melt curve



Template: genomic DNA of **Pan**

Pan_F: TTAACATCGAAAAGCCTTCCCACCGTA

Pan_R: ATTCATCAGAAGCGCATGTATTACACT

Product length: 101 bp

Target gene:

>|cl|NZ_CP083448.1_cds_WP_039382012.

1_226 [locus_tag=LAC65_RS01220]

[protein=hypothetical protein]

[protein_id=WP_039382012.1]

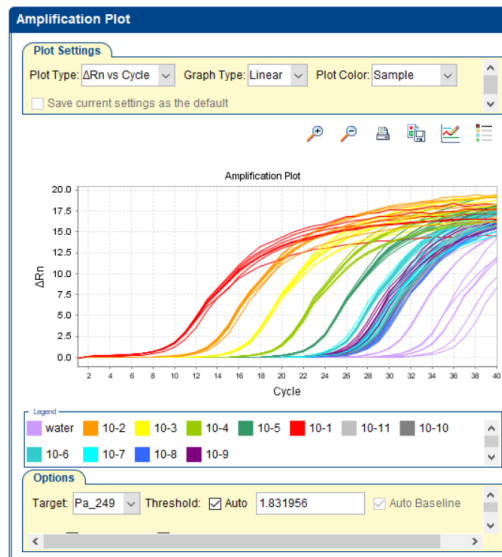
[location=272583..273698] [gbkey=CDS]

Standard curve:

$\lg[\text{DNA copies}]/\mu\text{l} = -0.3149 \cdot \text{CT} + 12.9605$

Standard curve

Template: plasmid containing **Pan** fragment



View Plate Layout View Well Table

Select Wells With: - Select Item - - Select Item -

Show in Wells View Legend

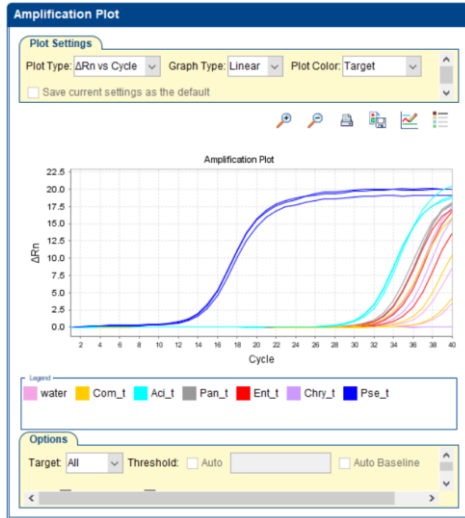
	1	2	3	4	5	6	7	8	9	10	11	12
A	10-1 Ct: 10...	10-2 Ct: 13.7	10-3 Ct: 17	10-4 Ct: 20.4	10-5 Ct: 23	10-6 Ct: 25	10-7 Ct: 27	10-8 Ct: 28	10-9 Ct: 27.7	10-10 Ct: 28	10-11 Ct: 28	water Ct: 36
B	10-1 Ct: 9.92	10-2 Ct: 13.7	10-3 Ct: 16.9	10-4 Ct: 20	10-5 Ct: 23	10-6 Ct: 25.8	10-7 Ct: 27	10-8 Ct: 28	10-9 Ct: 28	10-10 Ct: 28	10-11 Ct: 28	water Ct: 33
C	10-1 Ct: 9.99	10-2 Ct: 13	10-3 Ct: 16	10-4 Ct: 20	10-5 Ct: 23	10-6 Ct: 25	10-7 Ct: 28	10-8 Ct: 28.4	10-9 Ct: 28	10-10 Ct: 28	10-11 Ct: 28	water Ct: 33
D	10-1 Ct: 10	10-2 Ct: 14	10-3 Ct: 16	10-4 Ct: 20	10-5 Ct: 23	10-6 Ct: 25	10-7 Ct: 27	10-8 Ct: 28.5	10-9 Ct: 28	10-10 Ct: 28	10-11 Ct: 28	water Ct: 35
E	10-1 Ct: 10	10-2 Ct: 13	10-3 Ct: 16	10-4 Ct: 20	10-5 Ct: 23	10-6 Ct: 25.9	10-7 Ct: 27.2	10-8 Ct: 28	10-9 Ct: 27.3	10-10 Ct: 27	10-11 Ct: 28.7	water Ct: 34
F	10-1 Ct: 10	10-2 Ct: 13.9	10-3 Ct: 16	10-4 Ct: 20.2	10-5 Ct: 23	10-6 Ct: 25	10-7 Ct: 25	10-8 Ct: 28	10-9 Ct: 27	10-10 Ct: 28	10-11 Ct: 28	water Ct: 34
G	10-1 Ct: 10	10-2 Ct: 13	10-3 Ct: 16	10-4 Ct: 20	10-5 Ct: 23	10-6 Ct: 25	10-7 Ct: 27	10-8 Ct: 28	10-9 Ct: 26.7	10-10 Ct: 27	10-11 Ct: 28	water Ct: 30
H	10-1 Ct: 10	10-2 Ct: 13	10-3 Ct: 16	10-4 Ct: 20	10-5 Ct: 23	10-6 Ct: 25	10-7 Ct: 27	10-8 Ct: 28	10-9 Ct: 26	10-10 Ct: 27	10-11 Ct: 28	water Ct: 30

Wells: 1 96 Unknown 0 Standard 0 Negative Control 0 Empty

Concentration of DNA template decrease by tenfold

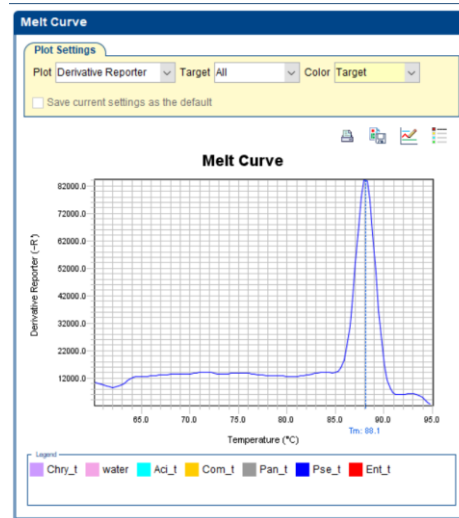
Primers: Pse_F, Pse_R

Amplification plot



Legend: DNA template

Melt curve



Template: genomic DNA of **Pse**

Pse_F: GAAATTCATCTTCGAACACAGCACAC

Pse_R: CTAGCTAACGGGGTTAAGTGCTTC

Product length: 124 bp

Target gene:

>|cl|NZ_CP046538.1_cds_WP_156714731

.1_565 [locus_tag=GOM96_RS02845]

[protein=efflux RND transporter permease

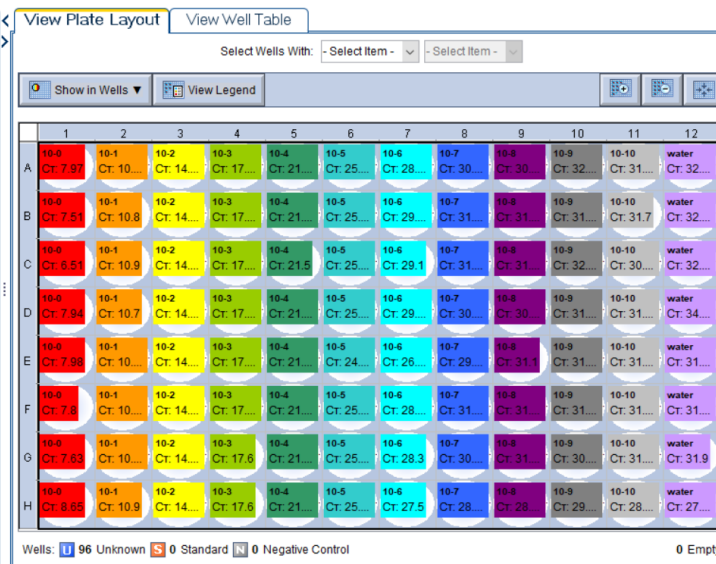
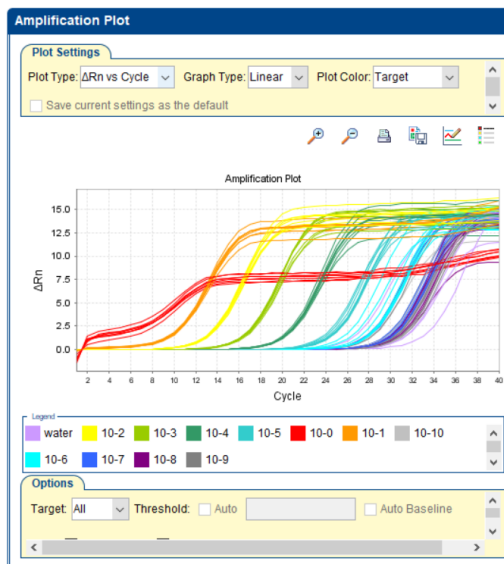
subunit] [protein_id=WP_156714731.1]

[location=646415..648859] [gbkey=CDS]

Standard curve:

$\lg[\text{DNA copies}]/\mu\text{l} = -0.2812 \cdot \text{CT} + 12.2596$

Standard curve



Concentration of DNA template
decrease by tenfold