**S5 Table. List of upregulated glycine-betainegenes unique to *Staphylococcus* sp. in response to salt stress**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl no.** | **Gene ID** | **Functional annotation** | **Gene** | **Sequence length** | **Hit accession** | **E-Value** | **Similarity** | **Score** | **Alignment Length** | **Positives** | **Sequence similar to functional target genes** |
| 1 | gi|72384791|gb|AAZ67687.1|glycine betaine aldehyde dehydrogenase putative | betaine aldehyde dehydrogenase | *betB* | 264 | AAZ67687 | 8.52E-026 | 82 | 95.9 |  70 | 58 | 1 |
| 2 | gi|242243486|ref|ZP04797931.1|BCCT family betaine transporter  | betainecarnitine choline family | *opuCB* | 1300 | ZP04797931 | 0 | 96 | 751.9 | 425 | 412 | 6 |
| 3 | gi|72384791|gb|AAZ67687.1|glycine betaine aldehyde dehydrogenase putative  | betaine-aldehyde dehydrogenase | *betB* | 516 | AAZ67687 | 2.60E-111 | 94 | 320.86 | 171 | 162 | 5 |
| 4 | gi|27467140|ref|NP763777.1|glycine betaine/carnitine/choline ABC transporter ATP-binding opuCA | choline abcatp-binding protein | *proV\_1* | 241 | NP763777 | 3.50E-048 | 100 | 154.45 | 76 | 76 | 1 |
| 5 | gi|365878078|ref|ZP09417566.1|choline/carnitine/betaine transporter | choline carnitinebetaine transporter | *betP\_2* | 114 | ZP09417566 | 2.97E-004 | 76 | 29.26 | 30 | 23 | 1 |
| 6 | gi|242243766|ref|ZP04798210.1|glycine betaine/choline ABC superfamily ATP binding cassette transporter, membrane protein  | choline transport system permease protein opubb | *opuBB* | 561 | ZP04798210 | 4.23E-038 | 94 | 127.49 | 87 | 82 | 1 |
| 7 | gi|57636194|gb|AAW52982.1|choline/carnitine/betaine transporter | choline transporter | *betT* | 382 | AAW52982 | 8.06E-061 | 100 | 192.59 | 115 | 115 | 2 |
| 8 | gi|365228580|gb|EHM69761.1|glycine betaine/carnitine/choline transport system permease protein opuCD | glycine betainecarnitine choline transport system permease protein opucd | *opuCD* | 298 | EHM69761 | 6.59E-032 | 100 | 109.77 | 58 | 58 | 7 |
| 9 | gi|319400451|gb|EFV88685.1|glycine/betaine/carnitine/choline-binding protein  | glycine betainecarnitine choline-binding protein | *opuCC* | 271 | EFV88685 | 3.67E-047 | 100 | 150.21 | 75 | 75 | 8 |
| 10 | gi|291440664|ref|ZP06580054.1|glycine betaine transport system permease protein  | glycine betaine transport system permease protein | *opuAB* | 120 | ZP06580054 | 2.18E-004 | 53 | 30.03 | 39 | 21 | 1 |
| 11 | gi|57866157|ref|YP187819.1|major facilitator family transporter  | prolinebetaine transporter | *proP* | 1141 | YP187819 | 1.78E-102 | 98 | 308.53 | 173 | 171 | 20 |