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| --- | --- | --- | --- |
| Enzyme (% ID) | Organism | accession | reference |
| DddD (60) | *Marinomonas* sp.MWYL1 | ABR72937.1 | Todd *et al*., 2007 |
| *Pseudomonas* sp.J465 | ACY01992.1 | Curson *et al.*, 2010 |
| *Psychrobacter* sp.J466 | ACY02894.1 | Curson *et al*., 2010 |
| *Halomonas* sp. HTNK1 | ACV84065.1 | Todd *et al*., 2010 |
| DddL (45) | *Sulfitobacter* sp. EE36 | ADK55772.1 | Curson *et al.*, 2008 |
| *Rhodobacter sphaeroides* 2.4.1 | ABA77574.1 | Curson *et al.*, 2008 |
| DddP (55) | *Roseovarius nubinhibens* ISM | EAP77700.1 | Todd *et al.*, 2009 |
| DddQ | *Ruegeria pomeroyi* DSS-3 | AAV94883.1 | Todd *et al.*, 2011 |
| *Roseovarius nubinhibens* ISM | EAP76001.1,  EAP76002.1 | Todd *et al.*, 2011 |
| marine metagenome | GOS\_7860946,  GOS\_2632696,  GOS\_2469775 | Todd *et al.*, 2011 |
| DddW | *Ruegeria pomeroyi* DSS-3 | AAV93771.1 | Todd *et al*., 2012 |
| DddY | *Alcaligenes faecalis* | ADT64689.1 | Curson *et al.*, 2011a |
| DmdA (50) | *Ruegeria pomeroyi* DSS-3  *Pelagibacter ubique* HTCC1062 | AAV95190.1  YP\_265671.1 | Howard *et al.*, 2006 |
| rhodopsin | *Marinobacter* sp. ELB17 | EAZ99241 |  |
| RecA | *Escherichia coli* K12 | P0A7G6.2 | Howard *et al.*, 2008 |