

Table 1 Information about the cloned genes and their sources of strain as well as the types of degraded pesticide

| Cloned genes names | Sources | The types of degraded pesticide | References |
|-----------------------------|---|---------------------------------|--------------------------|
| <i>opd</i> | Flavobacterium | Organo-phosphorus pesticide | Mulbry and Karns, 1989 |
| <i>mpd</i> | Pseudomonas | Organo-phosphorus pesticide | Liu et al., 2003 |
| <i>opaA</i> | Aeromonas | Organo-phosphorus pesticide | Cheng and Harvey, 1996 |
| <i>OPH</i> | <i>Arthrobacter</i> sp. strain B-5. | Organo-phosphorus pesticide | Ohshiro, 1999 |
| <i>mpd</i> | <i>Plesiomonas</i> sp. strain M6 | Organo-phosphorus pesticide | Cui and Shen, 2001 |
| <i>opdA</i> | <i>Agrobacterium radiobacter</i> P230 | Organo-phosphorus pesticide | Horne et al., 2002 |
| detoxification protein gene | <i>Chromobacterium violaceum</i> | Organo-phosphorus pesticide | Vasconcelos et al., 2003 |
| <i>ophc2</i> | <i>Pseudomonas</i> bacteria | Organo-phosphorus pesticide | Deng et al., 2004 |
| EstP gene | <i>Klebsiella</i> sp. strain ZD112 | Pyrethroid pesticide | Wu et al., 2006 |
| pye3 gene | The prokaryotic DNA for metagenomic library | Pyrethroid pesticide | Li et al., 2008 |
| sys410 gene | Turban Basin metagenomic library | Pyrethroid pesticide | Fan et al., 2012 |
| <i>pytH</i> | <i>Shingobium</i> sp. strain JZ-1 | Pyrethroid pesticide | Wang et al., 2009 |
| GST coding gene | <i>Ochrobactrum</i> sp. Strain CTN-11 | Organochlorine pesticide | Liang et al., 2010 |
| BphH encoding gene | <i>Burkholderia xenoverans</i> LB400 | Organochlorine pesticide | Wang and Seah, 2005 |
| PCB degrading enzyme | <i>Pseudomonas</i> sp. | Organochlorine pesticide | van der Meer et al. 1991 |