**LuxR**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | LuxR[1] |  | 59 | OryR[2] | Q5H3E9; Q2P6A5; Q6R756 |
| 2 | AbaR[3] |  | 60 | PagR[4] |  |
| 3 | AcuR[5] |  | 61 | PalR[6] |  |
| 4 | AfeR[7] |  | 62 | PanR[8] |  |
| 5 | AhlR[9] |  | 63 | PcoR[10] |  |
| 6 | AhyR[11] |  | 64 | PcsR[12] | EJK99595.1；EJL05941.1 |
| 7 | AnoR[13] |  | 65 | PfsR[14] | CBI67623.1 |
| 8 | AqsR[15] |  | 66 | PfvR[14] | CAQ15948.2 |
| 9 | AsaR[11] | Same as AhyR | 67 | PgaR[4] | ZP\_02146367.1 |
| 10 | AubR[16] |  | 68 | PhzR[17] |  |
| 11 | AurR[18] |  | 69 | PipR[19] |  |
| 12 | AvhR[20] |  | 70 | PmlR[21] | Same as BpsR |
| 13 | AviR[22] |  | 71 | PpnR[23] |  |
| 14 | AvsR[24] |  | 72 | PpoR[25] |  |
| 15 | BabR[26] | BMEI1758 | 73 | PpuR[27] |  |
| 16 | BisR[28] |  | 74 | PsaR[29] |  |
| 17 | BjaR[30] |  | 75 | PsrR[31] |  |
| 18 | BmaR[32] |  | 76 | PsyR[33] |  |
| 19 | BpsR[34] |  | 77 | QscR[35] |  |
| 20 | BraR[36] |  | 78 | RaiR[37] |  |
| 21 | BtaR1[38, 39] | BTH\_II1510 | 79 | RhiR[40] |  |
| 22 | BtaR2[38, 39] | BTH\_II1231 | 80 | RhlR[41] |  |
| 23 | BtaR3[38, 39] | BTH\_II0805 | 81 | SdiA[42] |  |
| 24 | BviR[43] |  | 82 | SinR[44] |  |
| 25 | BxeR[45] | Bxe\_B2275, | 83 | SmaR[46] |  |
| 26 | CamR[47] | KOP94319.1 | 84 | SmcR[48] |  |
| 27 | CamR2[47] | KOP93373.1 | 85 | SmoR[49] |  |
| 28 | CarR[46] |  | 86 | SogR1[50] | SG0285 |
| 29 | CciR[51] |  | 87 | SplR[52] |  |
| 30 | CepR[53] |  | 88 | SpnR[54] |  |
| 31 | CinR[55] |  | 89 | SprR[56] |  |
| 32 | CroR[57] |  | 90 | SpsR[58] |  |
| 33 | CsaR[59] |  | 91 | SsaR[60] | ZP\_05123091 |
| 34 | CviR[61] |  | 92 | SsbR[60] | ZP\_05123460 |
| 35 | DqsR[62] | AAF10563.1 | 93 | SscR[63] |  |
| 36 | EanR[64] |  | 94 | SwrR[65] |  |
| 37 | EasR[66] | AHW94256.1 | 95 | TeiR[67] |  |
| 38 | EcbR[68] |  | 96 | TofR[69] |  |
| 39 | EccR[70, 71] |  | 97 | TraR[72] |  |
| 40 | EdwR[73] |  | 98 | TswR[74] |  |
| 41 | EsaR[75] |  | 99 | ValR[76] | Same as opaR |
| 42 | ExpR[77] |  | 100 | VanR[78] |  |
| 43 | FilR1[79] |  | 101 | VanT[80] |  |
| 44 | GinR[81] |  | 102 | VfqR[82] |  |
| 45 | GtaR[83] |  | 103 | VjbR[84] |  |
| 46 | HanR[85] |  | 104 | VsmR[86] |  |
| 47 | HapR[87] |  | 105 | VqsR[88] | Q9I0P6\_PSEAE; Same as TriR |
| 48 | LasR[89] |  | 106 | XccR[90] | A0A0H2X582 |
| 49 | LitR[91] |  | 107 | XenR[45] | Bxe\_C0416 |
| 50 | MalR[92] |  | 108 | YcoR[93] | A1JKL4 |
| 51 | MbaR[94] | U737\_12750 | 109 | YenR[95] |  |
| 52 | MrtR[96] |  | 110 | YpeR[97] |  |
| 53 | MupR[98] |  | 111 | YpsR[99] |  |
| 54 | NesR[100] | Add SMc04032 | 112 | YruR[101] |  |
| 55 | NmuR[102] |  | 113 | YspR[103] |  |
| 56 | NovR[104] | WP­\_168905539.1 | 114 | YtbR[99] | Same as YspR |
| 57 | NurR[105] | Smc00877 | 115 | RpaR[44] | p-coumaroyl-homoserine lactone |
| 58 | OpaR[106] |  |  |  |  |

**LuxI**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | LuxI[1] |  | 47 | NgrI[107] |  |
| 2 | AbaI[3] |  | 48 | NmuI[102] |  |
| 3 | AciI[108] | WP\_041800350.1 | 49 | NovI[104] |  |
| 4 | AcuI[5] | A1L0D1\_9GAMM | 50 | PagI[4] |  |
| 5 | AfeI[7] |  | 51 | PalI[6] |  |
| 6 | AhlI[9] |  | 52 | PanI[8] |  |
| 7 | AhyI[11] |  | 53 | PcoI[10] |  |
| 8 | AnoI[13] |  | 54 | PfsI[14] |  |
| 9 | AqsI[15] |  | 55 | PfvI[14] |  |
| 10 | AraI[109] | AAY89602.1,  same as AcuI | 56 | PgaI[4] |  |
| 11 | AsaI[11] | Same as AhyR | 57 | PhzI[17] |  |
| 12 | AubI[16] |  | 58 | PmlI[21] |  |
| 13 | AurI[18] |  | 59 | PpnI[23] |  |
| 14 | AvsI[24] |  | 60 | PpuI[27] |  |
| 15 | BmaI[32] |  | 61 | PsyI[33] |  |
| 16 | BpsI[34] |  | 62 | RaiI[37] |  |
| 17 | BraI[36] |  | 63 | RhiI[40] |  |
| 18 | BtaI[38, 39] | BTH\_II1510 | 64 | RhlI[41] |  |
| 19 | BurI[110] |  | 65 | RruI[111] | Rru\_A3396 |
| 20 | BviI[43] |  | 66 | SinI[44] |  |
| 21 | CamI[47] | KOP94319.1 | 67 | SmaI[46] |  |
| 22 | CarI[46] |  | 68 | SogI[50] |  |
| 23 | CciI[51] |  | 69 | SplI[52] |  |
| 24 | CepI[53] |  | 70 | SpnI[54] |  |
| 25 | CinI[55] |  | 71 | SprI[56] |  |
| 26 | CneI[112] |  | 72 | SpsI[58] |  |
| 27 | CroI[57] |  | 73 | SsaI[60] |  |
| 28 | CsaI[59] |  | 74 | SsbI[60] |  |
| 29 | CviI[61] |  | 75 | SulI[113] |  |
| 30 | EanI[64] |  | 76 | SwrI[65] |  |
| 31 | EasI[66] | AHW94256.1 | 77 | TofI[69] |  |
| 32 | EcbI[68] |  | 78 | TraI[72] |  |
| 33 | EdwI[73] |  | 79 | TslI[114] |  |
| 34 | EsaI[75] |  | 80 | TswI[74] |  |
| 35 | ExpI[77] |  | 81 | VanI[78] |  |
| 36 | FilI[79] |  | 82 | VfqI[82] |  |
| 37 | GinI[81] |  | 83 | VsmI[86] | Same as RhlI |
| 38 | GtaI[83] |  | 84 | XenI[45] |  |
| 39 | HalI |  | 85 | YenI[95] |  |
| 40 | HanI[85] |  | 86 | YpeI[97] |  |
| 41 | HslR[87] |  | 87 | YpsI[99] |  |
| 42 | LasI[89] |  | 88 | YruI[101] |  |
| 43 | MrlI |  | 89 | YspI[103] |  |
| 44 | MrtI[96] |  | 90 | YtbI[99] |  |
| 45 | MsaI |  | 91 | RpaI[44] |  |
| 46 | MupI[98] |  | 92 | BjaI[30] | isovaleryl-HSL |

**LuxM**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | LuxM[115] |  |  |  |  |
| 2 | VanM[116] |  |  |  |  |
| 3 | AinS[117] |  |  |  |  |

**LuxN**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | LuxN[115] |  |  |  |  |
| 2 | VanN[116] |  |  |  |  |
| 3 | AinR[117] |  |  |  |  |

**HdtS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | HdtS[118] |  |  |  |  |
| 2 | DqsR[107] |  |  |  |  |
| 3 | JqsR[119] |  |  |  |  |

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