

| Strain | ATCC 12755 <i>E. casseliflavus</i> | ATCC_49996 <i>E. flavescens</i> | IIL-SusEc <i>E. entomosocium</i> | DB-1 <i>E. innesii</i> | Best ANI Species |
|-----------------|---------------------------------------|------------------------------------|-------------------------------------|---------------------------|-------------------------|
| ATCC_12755 | 99,9939 | 94,9387 | 98,5755 | 95,6836 | <i>E. casseliflavus</i> |
| C1 | 98,6806 | 94,9704 | 98,6471 | 95,4891 | <i>E. casseliflavus</i> |
| ATCC_49996 | 94,9621 | 100 | 95,0415 | 94,6573 | <i>E. flavescens</i> |
| 14-MB-W-14 | 94,9024 | 97,8712 | 94,8223 | 94,7038 | <i>E. flavescens</i> |
| NBRC_100478 | 94,8619 | 97,7695 | 94,9776 | 94,8307 | <i>E. flavescens</i> |
| DSM_20680 | 94,8672 | 97,8399 | 95,0172 | 94,8909 | <i>E. flavescens</i> |
| F1129E_107 | 95,0314 | 98,2979 | 94,9353 | 94,9981 | <i>E. flavescens</i> |
| 2F9_DIV0599 | 95,4436 | 95,2535 | 95,325 | 97,6225 | <i>E. innesii</i> |
| 2G9_DIV0600 | 95,4824 | 95,1425 | 95,4686 | 97,663 | <i>E. innesii</i> |
| 3G6_DIV0642 | 95,1795 | 97,859 | 95,1452 | 94,8992 | <i>E. flavescens</i> |
| 4E1_DIV0656 | 98,6156 | 95,0141 | 98,5778 | 95,6312 | <i>E. casseliflavus</i> |
| 5B3_DIV0040 | 95,5607 | 97,3514 | 95,7409 | 94,9759 | <i>E. flavescens</i> |
| 3C7_DIV0644 | 98,6627 | 94,9789 | 98,6739 | 95,652 | <i>E. casseliflavus</i> |
| 3C8_DIV0646 | 98,5096 | 94,8786 | 98,6176 | 95,6425 | <i>E. casseliflavus</i> |
| 6D12_DIV0197 | 94,9123 | 97,885 | 95,1109 | 94,7922 | <i>E. flavescens</i> |
| 8E11_MSG4843 | 98,5558 | 94,8867 | 98,3512 | 95,5945 | <i>E. casseliflavus</i> |
| CR-Ec1 | 98,5216 | 94,8512 | 98,4795 | 95,6368 | <i>E. casseliflavus</i> |
| AM17-31 | 94,7333 | 97,7383 | 94,8753 | 94,824 | <i>E. flavescens</i> |
| EC-369 | 95,1959 | 97,6648 | 95,1935 | 94,9814 | <i>E. flavescens</i> |
| P9_C | 95,0114 | 97,9848 | 95,0474 | 94,8732 | <i>E. flavescens</i> |
| L4-B | 95,0045 | 98,0992 | 95,0016 | 94,8006 | <i>E. flavescens</i> |
| L5-B | 94,8788 | 98,0094 | 94,9279 | 94,8325 | <i>E. flavescens</i> |
| PF-3 | 98,6924 | 94,9303 | 98,5592 | 95,5537 | <i>E. casseliflavus</i> |
| PF-2 | 98,6409 | 94,9749 | 98,5443 | 95,5504 | <i>E. casseliflavus</i> |
| OL5 | 95,7073 | 94,8137 | 95,6601 | 98,0562 | <i>E. innesii</i> |
| NBRC_12256 | 95,0372 | 97,865 | 95,167 | 94,703 | <i>E. flavescens</i> |
| DE0201 | 94,9227 | 97,9248 | 94,7755 | 94,7965 | <i>E. flavescens</i> |
| DE0110 | 95,4105 | 95,6027 | 95,4345 | 97,273 | <i>E. innesii</i> |
| OS-61 | 94,941 | 97,6959 | 94,8993 | 94,7738 | <i>E. flavescens</i> |
| EC291 | 94,8874 | 99,5029 | 95,012 | 94,6373 | <i>E. flavescens</i> |
| B79 | 94,9236 | 97,9763 | 94,8559 | 94,9249 | <i>E. flavescens</i> |
| B72 | 94,927 | 97,9117 | 94,8523 | 94,9111 | <i>E. flavescens</i> |
| 10-1 | 94,8362 | 97,8638 | 94,9177 | 94,7662 | <i>E. flavescens</i> |
| UFMG-H9 | 94,9753 | 97,9824 | 95,003 | 94,9503 | <i>E. flavescens</i> |
| UFMG-H7 | 95,0888 | 97,9277 | 95,1574 | 94,8577 | <i>E. flavescens</i> |
| UFMG-H8 | 95,1507 | 97,7785 | 95,2679 | 94,8261 | <i>E. flavescens</i> |
| EGM182 | 94,8406 | 97,9188 | 94,8318 | 94,8347 | <i>E. flavescens</i> |
| 13D1-56 | 94,9275 | 99,3493 | 95,0009 | 94,6722 | <i>E. flavescens</i> |
| 5D2-51 | 95,0322 | 98,125 | 95,1527 | 94,9105 | <i>E. flavescens</i> |
| 5D2-10 | 95,0087 | 98,0904 | 95,0934 | 94,8911 | <i>E. flavescens</i> |
| 4A2-6 | 95,1116 | 97,6867 | 95,2363 | 94,8446 | <i>E. flavescens</i> |
| 3C1-8 | 95,0194 | 98,1456 | 95,0705 | 94,8804 | <i>E. flavescens</i> |
| 1001287H_170206 | 94,8239 | 97,7533 | 94,8236 | 94,7602 | <i>E. flavescens</i> |
| FDAARGOS_998 | 94,9295 | 99,9947 | 95,1189 | 94,6859 | <i>E. flavescens</i> |

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|---------------|---------|---------|---------|---------|----------------------|
| S53 | 95,45 | 94,8818 | 95,559 | 98,0505 | <i>E. innesii</i> |
| S52 | 95,4497 | 94,8235 | 95,5659 | 98,0402 | <i>E. innesii</i> |
| S76 | 95,4966 | 94,8143 | 95,5373 | 98,0144 | <i>E. innesii</i> |
| S77 | 95,5322 | 94,9064 | 95,5373 | 98,0185 | <i>E. innesii</i> |
| FDAARGOS_1122 | 95,2466 | 97,6111 | 95,1928 | 95,4416 | <i>E. flavescens</i> |
| FDAARGOS_1121 | 95,4503 | 96,0968 | 95,4932 | 96,9334 | <i>E. innesii</i> |
| FDAARGOS_1120 | 94,8284 | 97,8238 | 94,9561 | 94,8154 | <i>E. flavescens</i> |
| 3UPD1 | 95,0806 | 98,2592 | 95,1541 | 94,8569 | <i>E. flavescens</i> |
| 3MPK4 | 94,9235 | 97,9641 | 95,0095 | 94,8908 | <i>E. flavescens</i> |
| 3MPK3 | 94,9063 | 98,0076 | 94,9328 | 94,8839 | <i>E. flavescens</i> |
| 3CPC4 | 95,068 | 98,2197 | 95,1259 | 94,8166 | <i>E. flavescens</i> |
| 2UPD1 | 95,1004 | 98,1344 | 95,1667 | 94,9381 | <i>E. flavescens</i> |
| 53-1 | 94,7786 | 97,7831 | 94,7481 | 94,7368 | <i>E. flavescens</i> |
| 64-1 | 94,6921 | 97,8787 | 94,8151 | 94,5928 | <i>E. flavescens</i> |
| TL2 | 95,5179 | 94,6436 | 95,4855 | 98,1474 | <i>E. innesii</i> |
| GAL10 | 95,5446 | 94,7294 | 95,5369 | 98,2308 | <i>E. innesii</i> |
| GAL9 | 95,4393 | 94,6413 | 95,5229 | 98,1961 | <i>E. innesii</i> |
| GAL7 | 95,5175 | 94,602 | 95,5375 | 98,1858 | <i>E. innesii</i> |
| KresVRE0003 | 94,8631 | 97,6813 | 94,9268 | 94,7382 | <i>E. flavescens</i> |
| K18_2 | 95,3078 | 97,5992 | 95,263 | 95,1148 | <i>E. flavescens</i> |
| K17_1 | 95,3354 | 97,4719 | 95,2957 | 95,1289 | <i>E. flavescens</i> |
| BF_1 | 95,4052 | 95,5993 | 95,4567 | 97,6112 | <i>E. innesii</i> |
| DY31 | 94,9219 | 97,8733 | 95,0187 | 94,7927 | <i>E. flavescens</i> |
| V308 | 94,8925 | 98,3757 | 94,9927 | 94,8104 | <i>E. flavescens</i> |
| V311 | 94,9019 | 98,4045 | 94,9717 | 94,7445 | <i>E. flavescens</i> |
| U1908659 | 94,9129 | 98,2962 | 94,9417 | 94,7296 | <i>E. flavescens</i> |
| U1908577 | 94,9526 | 98,9099 | 94,9446 | 94,5704 | <i>E. flavescens</i> |
| U1903387 | 95,0709 | 97,7415 | 94,9985 | 94,9286 | <i>E. flavescens</i> |
| U1903386 | 94,9991 | 99,0038 | 95,0344 | 94,8084 | <i>E. flavescens</i> |
| DB-1 | 95,6107 | 94,7855 | 95,5834 | 100 | <i>E. innesii</i> |
| EF015 | 95,7583 | 95,0039 | 95,9584 | 97,9909 | <i>E. innesii</i> |
| V387 | 94,8368 | 98,4268 | 94,9438 | 94,7574 | <i>E. flavescens</i> |
| HY338 | 95,4977 | 94,9306 | 95,4499 | 98,0302 | <i>E. innesii</i> |
| AM102-19 | 94,8542 | 98,3778 | 95,0188 | 94,7626 | <i>E. flavescens</i> |
| AM113-85 | 94,7733 | 97,7594 | 94,8849 | 94,8798 | <i>E. flavescens</i> |
| AM113-55 | 95,3376 | 95,9233 | 95,4892 | 97,0268 | <i>E. innesii</i> |
| AM113-34 | 94,9149 | 97,7936 | 94,8784 | 94,727 | <i>E. flavescens</i> |
| AM113-214 | 95,3737 | 95,8755 | 95,5121 | 97,0223 | <i>E. innesii</i> |
| AM113-192 | 95,3441 | 95,8512 | 95,551 | 97,019 | <i>E. innesii</i> |
| AM113-106 | 95,0774 | 97,861 | 95,204 | 94,8285 | <i>E. flavescens</i> |
| TM115-229 | 95,063 | 97,9067 | 95,0899 | 94,8783 | <i>E. flavescens</i> |
| TM115-08 | 95,0713 | 97,9613 | 95,0889 | 94,9336 | <i>E. flavescens</i> |
| AF101-08 | 94,8826 | 98,3129 | 94,9478 | 94,8027 | <i>E. flavescens</i> |
| TF109-28 | 94,9181 | 97,7759 | 95,0223 | 94,7621 | <i>E. flavescens</i> |
| TF109-25 | 94,8714 | 97,7595 | 94,9696 | 94,7423 | <i>E. flavescens</i> |
| TF109-26 | 94,9085 | 97,7373 | 94,971 | 94,7645 | <i>E. flavescens</i> |

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|-----------------|---------|---------|---------|---------|-------------------------|
| TF109-15 | 94,8935 | 97,7476 | 94,9713 | 94,7503 | <i>E. flavescens</i> |
| TF109-19 | 94,9024 | 97,7509 | 94,9474 | 94,7417 | <i>E. flavescens</i> |
| TF109-01 | 94,8895 | 97,7315 | 94,9147 | 94,714 | <i>E. flavescens</i> |
| AM96-01TSTA | 95,0882 | 99,2504 | 95,0978 | 94,7898 | <i>E. flavescens</i> |
| CQFY22-063 | 94,8015 | 98,313 | 94,8061 | 94,6983 | <i>E. flavescens</i> |
| RTP21106st3_F5 | 94,7919 | 98,0017 | 94,8725 | 94,7872 | <i>E. flavescens</i> |
| RTP21106st2_B5 | 94,8785 | 97,7906 | 94,9394 | 94,8198 | <i>E. flavescens</i> |
| B10_m1001262Bd2 | 95,4962 | 95,3884 | 95,4634 | 97,6077 | <i>E. innesii</i> |
| E4_m1001262Bd2 | 95,501 | 95,409 | 95,4296 | 97,5697 | <i>E. innesii</i> |
| H2_m1001262Bd2 | 95,4897 | 95,3606 | 95,399 | 97,5326 | <i>E. innesii</i> |
| C4_m1001262Bd2 | 95,514 | 95,3992 | 95,4633 | 97,6248 | <i>E. innesii</i> |
| ASE2 | 98,6325 | 95,1183 | 98,6902 | 95,6659 | <i>E. casseliflavus</i> |
| ASE4 | 95,0744 | 97,964 | 95,3536 | 94,8632 | <i>E. flavescens</i> |
| clai-4 | 94,9427 | 98,1101 | 94,9669 | 94,6471 | <i>E. flavescens</i> |
| FZMF | 94,6748 | 97,8262 | 94,9612 | 94,7626 | <i>E. flavescens</i> |
| IIL-Sp06 | 98,5427 | 94,9003 | 99,9401 | 95,5037 | <i>E. casseliflavus</i> |
| IIL-SusEc | 98,6009 | 95,0023 | 100 | 95,6424 | <i>E. casseliflavus</i> |
| IIL-CI05 | 98,522 | 94,9521 | 99,9742 | 95,4923 | <i>E. casseliflavus</i> |
| B1E4 | 94,9671 | 97,9578 | 95,0462 | 94,8552 | <i>E. flavescens</i> |
| B1E2 | 94,6714 | 97,8458 | 94,8962 | 94,7454 | <i>E. flavescens</i> |
| B2E4 | 94,9487 | 97,9512 | 95,0225 | 94,8636 | <i>E. flavescens</i> |
| GCF_031293445.1 | 95,0872 | 97,9331 | 95,0941 | 95,2473 | <i>E. flavescens</i> |
| P24-2 | 94,9968 | 98,8536 | 95,0471 | 94,7862 | <i>E. flavescens</i> |
| P10 | 94,9864 | 98,6062 | 94,957 | 94,8417 | <i>E. flavescens</i> |
| P5-2 | 94,9692 | 98,5319 | 94,8764 | 94,7514 | <i>E. flavescens</i> |
| K65 | 94,8392 | 98,2393 | 94,9615 | 94,7519 | <i>E. flavescens</i> |
| B569 | 94,9712 | 99,2041 | 95,0604 | 94,7803 | <i>E. flavescens</i> |
| K72-2 | 94,7886 | 97,9508 | 94,9412 | 94,8185 | <i>E. flavescens</i> |
| M42-2 | 94,8533 | 98,4401 | 94,8993 | 94,7281 | <i>E. flavescens</i> |
| B411 | 95,073 | 97,7496 | 95,0373 | 95,0686 | <i>E. flavescens</i> |
| B516 | 95,0197 | 97,7185 | 95,0553 | 94,8295 | <i>E. flavescens</i> |
| GCF_032056745.1 | 95,288 | 95,9895 | 95,4265 | 97,179 | <i>E. innesii</i> |
| CQFYH22-092 | 94,9139 | 98,5158 | 95,1009 | 94,8841 | <i>E. flavescens</i> |
| CQFYH22-058 | 94,9974 | 98,278 | 94,8772 | 94,7416 | <i>E. flavescens</i> |
| CQFYH22-049 | 95,0407 | 98,3122 | 95,0739 | 94,8645 | <i>E. flavescens</i> |
| CQFYH22-044 | 94,8702 | 98,2545 | 95,0006 | 94,7375 | <i>E. flavescens</i> |
| CQFY22-060 | 94,8661 | 98,4451 | 94,9651 | 94,8159 | <i>E. flavescens</i> |
| Dec0527 | 94,9178 | 98,5863 | 94,9238 | 94,7781 | <i>E. flavescens</i> |
| S36 | 95,5455 | 94,7908 | 95,6698 | 98,2636 | <i>E. innesii</i> |
| S21 | 95,5478 | 95,11 | 95,472 | 98,0416 | <i>E. innesii</i> |
| N3 | 94,8464 | 97,8278 | 94,8689 | 94,7784 | <i>E. flavescens</i> |
| N51 | 94,8687 | 97,9194 | 94,8777 | 94,8241 | <i>E. flavescens</i> |
| N34 | 94,7786 | 97,7679 | 94,7933 | 94,8135 | <i>E. flavescens</i> |
| GHS4s | 94,9531 | 97,7414 | 95,0642 | 94,9266 | <i>E. flavescens</i> |
| Gar_NS | 94,9442 | 97,8721 | 94,8139 | 94,7541 | <i>E. flavescens</i> |
| Gar_RS | 94,891 | 97,8665 | 95,0145 | 94,682 | <i>E. flavescens</i> |

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|-----------------|---------|---------|---------|---------|-------------------------|
| PUMA0251 | 94,852 | 98,1117 | 94,9473 | 94,7922 | <i>E. flavescens</i> |
| T10-Anaer-15 | 95,1215 | 98,1176 | 95,2135 | 94,8143 | <i>E. flavescens</i> |
| MMO-19 | 94,8783 | 98,0278 | 94,8932 | 94,8744 | <i>E. flavescens</i> |
| JCM_8723 | 94,7954 | 97,7816 | 94,9904 | 94,7976 | <i>E. flavescens</i> |
| RTP21106st1_A12 | 94,8409 | 97,9273 | 95,0166 | 94,7709 | <i>E. flavescens</i> |
| NLAE-zl-C414 | 95,2147 | 97,8761 | 95,296 | 94,8303 | <i>E. flavescens</i> |
| NLAE-zl-G268 | 94,9092 | 97,8567 | 94,8153 | 94,868 | <i>E. flavescens</i> |
| NCTC12361 | 94,787 | 97,7928 | 94,9198 | 94,7307 | <i>E. flavescens</i> |
| NCTC12362 | 95,0088 | 97,9144 | 95,1073 | 94,8539 | <i>E. flavescens</i> |
| 4928STDY7071326 | 95,5744 | 95,6763 | 95,5312 | 97,4767 | <i>E. innesii</i> |
| 4928STDY7071542 | 94,8312 | 97,8722 | 94,9684 | 94,8605 | <i>E. flavescens</i> |
| 4928STDY7071489 | 96,4595 | 94,8239 | 96,3934 | 97,2003 | <i>E. innesii</i> |
| 4928STDY7071540 | 95,0253 | 97,9321 | 94,9933 | 94,8031 | <i>E. flavescens</i> |
| 4928STDY7071625 | 95,0564 | 97,7281 | 95,0105 | 95,0531 | <i>E. flavescens</i> |
| 4928STDY7071762 | 94,9671 | 97,8782 | 95,0703 | 94,8512 | <i>E. flavescens</i> |
| 4928STDY7071761 | 94,9045 | 98,1193 | 95,0206 | 94,8233 | <i>E. flavescens</i> |
| 4928STDY7387722 | 95,1745 | 97,8027 | 95,3314 | 94,8881 | <i>E. flavescens</i> |
| 4928STDY7387869 | 95,5263 | 95,706 | 95,5556 | 97,4628 | <i>E. innesii</i> |
| GCF_963523905.1 | 98,0541 | 95,645 | 98,0566 | 95,5922 | <i>E. casseliflavus</i> |