**Table S5.** The genes included in the TGF-β signaling pathways of *O. sinensis* and their annotations

|  |  |  |
| --- | --- | --- |
| **Gene ID** | **Nr annotation** | **Expression pattern** |
| EVM0003224 | hypothetical protein OCBIM\_22034445mg [Octopus bimaculoides] | + |
| EVM0007575 | PREDICTED: activin receptor type-1-like [Octopus bimaculoides] | + |
| EVM0009392 | PREDICTED: homeobox protein AKR-like isoform X2 [Dendroctonus ponderosae] | + |
| EVM0009959 | mothers against decapentaplegic homolog 6-like [Mizuhopecten yessoensis] | + |
| EVM0013438 | PREDICTED: follistatin-like isoform X1 [Octopus bimaculoides] | + |
| EVM0016296 | PREDICTED: BMP and activin membrane-bound inhibitor homolog [Octopus bimaculoides] | + |
| EVM0024956 | PREDICTED: E3 ubiquitin-protein ligase SMURF2-like isoform X2 [Octopus bimaculoides] | + |
| EVM0025341 | PREDICTED: transcription factor E2F5-like [Octopus bimaculoides] | + |
| EVM0026079 | PREDICTED: homeobox protein TGIF2-like isoform X3 [Octopus bimaculoides] | + |
| EVM0026672 | hypothetical protein OCBIM\_22030105mg [Octopus bimaculoides] | + |
| EVM0030866 | PREDICTED: transcription factor E2F5-like [Octopus bimaculoides] | + |

Note: “+” means up-regulated, “-” means down-regualted.