

Supplementary Materials

LncRNA pol-lnc78 as a ceRNA regulates antibacterial responses via suppression of pol-miR-n199-3p-mediated SARM down-regulation in *Paralichthys olivaceus*

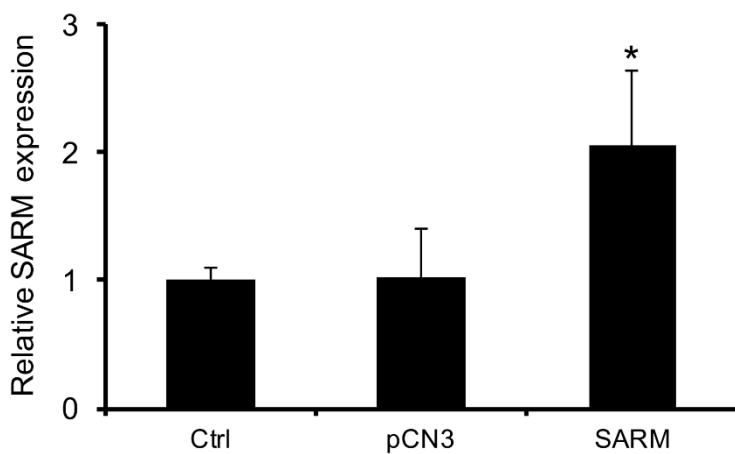
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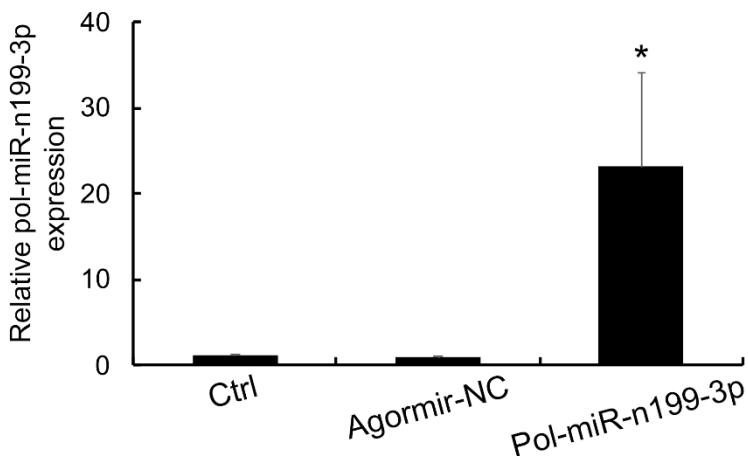
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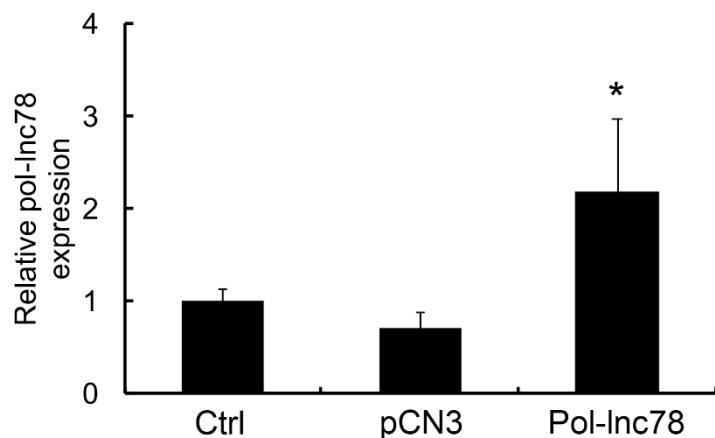
Supplementary Figure S1 Validation of *in vivo* overexpression of SARM

Flounder were injected with or without (control) SARM expression plasmid (pCN3-SARM) for 3 d. Expression levels of SARM were detected using RT-qPCR. P -values were calculated with Student's t -test. *: $P<0.05$. Error bars indicate SD.



Supplementary Figure S2 Validation of *in vivo* overexpression of pol-miR-n199-3p

Flounder were administrated with or without (control) pol-miR-n199-3p agomir for 12 h. Expression levels of pol-miR-n199-3p were examined by RT-qPCR. P -values were calculated with Student's t -test. *: $P<0.05$. Error bars indicate SD.



Supplementary Figure S3 Validation of *in vivo* overexpression of pol-Inc78

Flounder were injected with or without (control) pol-Inc78 expression plasmid (pCN3-Inc78) for 3 d. Expression levels of pol-Inc78 were examined using RT-qPCR. *P*-values were calculated with Student's *t*-test. *: *P*<0.05. Error bars indicate *SD*.

Supplementary Table S1 List of the primers used in this study

Name	Primer	Sequence (5' to 3')
SARM-qRT	Sarm-f	GCCACATCGACAACGGAGTA
	Sarm-r	TTCAGAAGGCTGGCCAGTTG
Pol-Inc78-qRT	Lnc-f	TCACACCTGATGTGCCTGAC
	Lnc-r	GGAAACGGTGCAGTGGTAGA
TNF- α -qRT	TNF-f	TCCTGGCGTTTCTTGGTACA
	TNF-r	CAGTGTGTTGGGGTTCTGTT
IL-1 β -qRT	IL-f	TCACTCACCATCACTCAGAAGT
	IL-r	CCTCATCTGGAACATCCGTCT
β -actin-qRT	Actin-f	AACCGCTGCCTCCTCCTCAT
	Actin-r	TCGGGACAACGGAACCTCTC
α -tubulin-qRT	Tuba-f	TGACATCACAAACGCCTGCTTC
	Tuba-r	GCACCACATCTCACGGTACAG
Pol-miR-n199-3p-qRT	Stem-miR	GTCGTATCCAGTGCAGGGTCCGAGGTATTGCACTGGATACGACGCCAGC
	miR-199-	CGCGCAACACTGGTTGTAA
	miR-199-	AGTGCAGGGTCCGAGGTATT
5s-qRT	Stem-5s	CGGTCTCCCATCCAAGTA
	5s-f	CCATACCACCCCTGAACAC
	5s-r	CGGTCTCCCATCCAAGTA
SARM-reporter	S-re-f	TCTAGTTTTAACGAGCTCTGCCAAATTCCACATGGCCT
	S-re-r	CCTGCAGGTCGACTCTAGACTGCAGAAGTTATCCACCACT
Pol-Inc78-reportor	Lnc-re-f	TCTAGTTTTAACGAGCTGCCCGTCTTCCATTCTT
	Lnc-re-r	CCTGCAGGTCGACTCTAGAGCCGATTCTACCTTGTTCAGC
SARM-express plasmid	S-ex-f	ATAGGCTAGCCTCGAGATATGCCACCATGCTCCTCCCTGACGCAG
	S-ex-r	TCCTCCTCCTCCGATATCTTCTTTCTGCCCTTGAGG
Pol-Inc78-express plasmid	Lnc-ex-f	ATAGGCTAGCCTCGAGATATGCCCGTCTTCCATTCTT
	Lnc-ex-r	TCCTCCTCCTCCGATATGCCGATTCTACCTTGTTCAGC