

**Table S1.** Species composition of fishes at various sites in Shanghai based on the eDNA metabarcoding analysis.

[illegible]

[illegible]

	Odontobuti dae	<i>Odontobutis</i>	<i>Odontobutis potamophila</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		<i>Micropercops</i>	<i>Micropercops swinhonis</i>	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Gobiidae	<i>Rhinogobius</i>	<i>Rhinogobius giurinus</i>	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
			<i>Rhinogobius cliffordpopei</i>	✓	✓	✓		✓		✓	✓	✓	✓		✓	✓	✓	✓	
		<i>Mugilogobius</i>	<i>Mugilogobius myxodermus</i>	✓															
		<i>Tridentiger</i>	<i>Tridentiger bifasciatus</i>						✓	✓	✓	✓	✓			✓			
	Taenioidid ae	<i>Odontamblyopus</i>	<i>Odontamblyopus lacepedii</i>	✓		✓					✓				✓		✓		✓
Anguilliformes	Anguillidae	<i>Anguilla</i>	<i>Anguilla japonica</i>													✓	✓		
Siluriformes	Bagridae	<i>Tachysurus</i>	<i>Tachysurus fulvidraco</i>												✓	✓			
			<i>Tachysurus nitidus</i>	✓															
	Siluridae	<i>Silurus</i>	<i>Silurus asotus</i>	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mugiliformes	Mugilidae	<i>Mugil</i>	<i>Mugil cephalus</i>															✓	✓
Clupeiformes	Engraulidae	<i>Coilia</i>	<i>Coilia sp.</i>	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cyprinodontiformes	Adrianichthyidae	<i>Oryzias</i>	<i>Oryzias sinensis</i>	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓