Table S4. Results of the logistic regression analysis of stage 1 and stage 2 choices for the experiment reported in the main paper. For the stage 1 choices, the analysis is focused on staying on the same stage 1 action on the next trial, based on whether the previous trial was rewarded (reward), and whether the previous trial was common or rare (transition). 'reward:transition' is the interaction between reward, and transition type, and 'intercept' refers to the intercept term. For stage 2 choices, the analysis is focused on staying on the same stage 2 action, based on staying on the same stage 1 action (stay) and earning a reward in the previous trial (reward). 'reward:stay' is the interaction between 'reward', and 'stay'. 'probe 3' are the results reported in the main paper.

Stage 1 actions				
	_	probe 1	probe 2	probe 3
intercept	<i>p</i> -value	0.618	0.054	0.373
	β (SE)	-0.065 (0.131)	$0.299 \ (0.155)$	-0.166 (0.186)
reward	<i>p</i> -value	0.002	<1e-4	0.003
	β (SE)	$0.52 \ (0.174)$	$0.504 \ (0.128)$	$0.612 \ (0.208)$
transition	<i>p</i> -value	0.832	0.155	0.164
	β (SE)	-0.057 (0.273)	-0.406 (0.285)	$0.371 \ (0.267)$
reward:transition	<i>p</i> -value	0.005	0.02	<1e-5
	β (SE)	0.842(0.3)	0.399(0.171)	$0.923 \ (0.204)$
Stage 2 actions				
		probe 1	probe 2	probe 3
		Probe 1	Probe 2	Proses
intercept	<i>p</i> -value	0.221	0.576	0.001
intercept	p -value β (SE)	-	•	-
intercept	-	0.221	0.576	0.001
	β (SE)	0.221 -0.266 (0.217)	0.576 -0.168 (0.301)	0.001 -0.95 (0.295)
	β (SE) p -value	0.221 -0.266 (0.217) <1e-4	0.576 -0.168 (0.301) <1e-5	0.001 -0.95 (0.295) <0.001
reward	β (SE) p -value β (SE)	0.221 -0.266 (0.217) <1e-4 0.631 (0.149)	0.576 -0.168 (0.301) <1e-5 1.244 (0.265)	0.001 -0.95 (0.295) <0.001 0.849 (0.235)
reward	β (SE) p -value β (SE) p -value	0.221 -0.266 (0.217) <1e-4 0.631 (0.149) 0.111	0.576 -0.168 (0.301) <1e-5 1.244 (0.265) 0.255	0.001 -0.95 (0.295) <0.001 0.849 (0.235) 0.019