

Percentage of 325 whisks classified as:	PROTRACTION				RETRACTION			
	Single	Delayed	Double	Delayed + Double	Single	Delayed	Double	Delayed + Double
Rostral profile	28%	39%	33%	72%	88%	4%	8%	12%
	19%	31%	50%	81%	52%	21%	27%	48%
Caudal profile	32%	39%	29%	68%	83%	4%	13%	17%
	18%	42%	40%	82%	52%	23%	25%	48%
“Mid-array” profile	35%	42%	23%	65%	94%	3%	3%	6%
	15%	43%	42%	85%	68%	16%	16%	32%

**Table S1. Frequency of profile occurrences for rostral, caudal and “mid-array” whiskers filtered at 20 Hz and 30 Hz.** This table is identical to Table 1 in the main text, except that whisker angles have been filtered at 20 and 30 Hz, instead of at 25 Hz. The top black number in each table cell shows the whisk classification performed for whisker angles filtered at 20 Hz. The bottom gray number in each table cell shows the whisk classification performed for whisker angles filtered at 30 Hz. The fourth column under both protraction and retraction is simply the sum of columns two and three. Note that the percentage of “mid-array” pumps is not the average of the rostral and caudal percentages. The classification of mid-array profiles was based on the mid-array angles, calculated as described in *Methods*.