KEY RESOURCES TABLE

REAGENT or RESOURCE	SOURCE	IDENTIFIER
Antibodies		
Bacterial and Virus Strains		
Biological Samples		
Chemicals, Peptides, and Recombinant Proteins		
Critical Commercial Assays		
Illumina TruSeq RNA Sample Prep kit v2.0	Illumina	
Deposited Data		
Experimental Models: Cell Lines		
Experimental Models: Organisms/Strains		

Chlamydomonas mutant strains in background CC-4403/4402; list of all strains included in STAR Methods	Susan Dutcher, James Umen, laboratory stocks	
Oligonucleotides		
Recombinant DNA		
Software and Algorithms		
MATLAB and code generated in-house to execute the project	MATLAB: Mathworks; code: generated by FC in the course of the project	
Other		
Sytox Green	Thermo-Fisher	S7020
Accuri C6 flow cytometer	BD Biosciences	C6
Axioskop 40 tetrad dissection microscope	Zeiss	Axioskop 40 FL
Canon Rebel EOS 50D camera attached to Zeiss camera tube on Axioskop 40	Canon	EOS 50D
In-house modified stage for Axioskop 40 allowing accurate alignment of positions in standard 386 microplate positions	In-house; 3-D printer specs available on request	NA

DiBoys Red/Blue 45W growlights	Amazon	DiBoys Red/Blue 45W growlights
RNeasy RNA purification columns	Qiagen	74104
FastPrep FP120	Bio101/Thermo	FP120
Apogee MQ-200 PAR light meter	Amazon	MQ-200