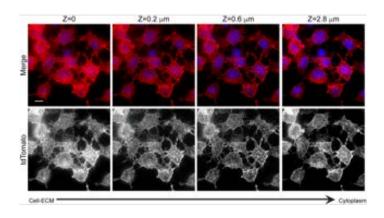
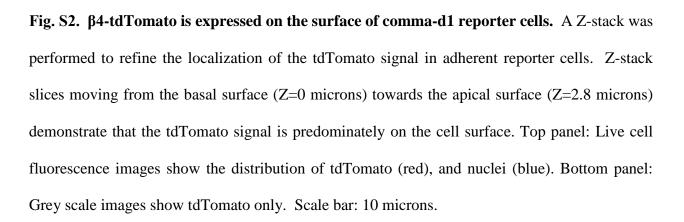
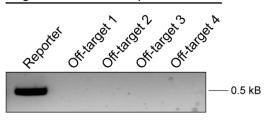


Fig. S1. Generation of integrin β 4 reporter 4T1 cells. (A) 4T1 cells were transfected with donor plasmid and sgRNA #2/Cas9 and processed for flow cytometry to quantify tdTomato positive cells, which were subsequently processed for single-cell sorting. (B) Genomic DNA from clones described (A) was isolated and processed for PCR to determine the correct genomic insert of tdTomato.

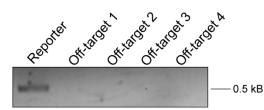








Reporter cassette to 3' genomic locus



Rank	Genomic Locus	Target Sequence	Primer Sequences
1	chr12: 100944782-	AGGGGGCGGGGGGGGGGGGGTTC	F: agagcagcacccacaagtct
	100944804		R: caggggaaaacatctcagga
2	chr13:4621969-	AAGGGGCGTGGGGGGGGGGTTC	F: ccaaaggctgctagtggaag
	4621991		R:gagtagcggccagagaaatg
3	chr6: 70352481-	CTCGGGGGGGGGGGGGGGGGGTTC	F: atcccaaaagtcccccatac
	70352503		R: acccctgtctccatctgttg
4	chr11:119990864-	CTGGAGCACTGGGGAGGTTC	F: ggaatgagtgggatccaaga
	119990886		R: accagtctgagaaggcctga

Fig. S3. Off-target analysis of integrin β 4 reporter comma-d1 cells. Genomic DNA was isolated from comma-d1 reporter cells and the indicated potential off-target sites were screened by PCR to determine reporter cassette integration. The four genomic loci screened, and the primer sequences utilized are also shown.

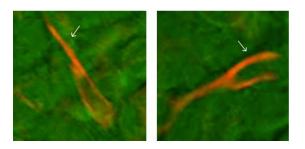
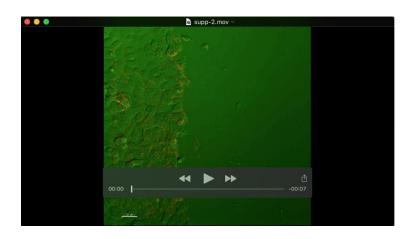


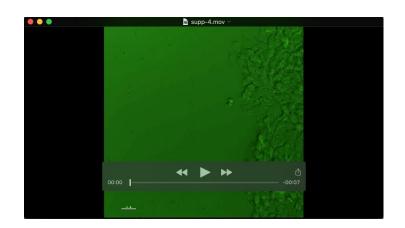
Fig. S4. Integrin β 4 is present in cell protrusions of migrating cells. Inset of still images of migrating cells from Movies 3 and 5 that show tdTomato/ β 4 in cell protrusions formed by migrating cells. Arrows indicate cell protrusions.



Movie 1. 18-hour movie of control β 4 reporter comma-d1 cells in response to a scratch wound using a green differential interference contrast (DIC) background. Scale bar represents 25 micrometers.



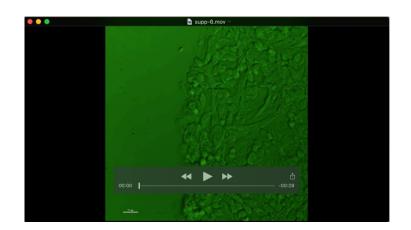
Movie 2. Movie 1 without a DIC background. Scale bar represents 25 micrometers.



Movie 3. An 18-hour movie of YAP-transformed β 4 reporter comma-d1 cells in response to a scratch wound using a green DIC background. Scale bar represents 25 micrometers.



Movie 4. Movie 3 without a DIC background. Scale bar represents 25 micrometers.



Movie 5. 72-hour movie of YAP-transformed β 4 reporter comma-d1 cells in response to a scratch wound using a green DIC background. Scale bar represents 25 micrometers.



Movie 6. Movie 5 without a DIC background. Scale bar represents 25 micrometers.