



Movie 1. Myeloid cell dynamics in the central cornea stroma of a WT;*c-fms-EGFP* mouse 1 day after injury. (Related to Figure 4A.) The central cornea of a WT;*c-fms-EGFP* mouse with myeloid cells expressing GFP was imaged 1 day after injury with 0.1 N NaOH. Images were obtained using *in vivo*, time-lapse confocal microscopy (Nikon C1si spectral confocal laser-scanning microscope). Individual images were taken every 3.22 seconds for 30 minutes.



Movie 2. Myeloid cell dynamics in the central cornea stroma of a *Mmp12*^{-/-};*c-fms-EGFP* mouse 1 day after injury. (Related to Figure 4A.) The central cornea of a *Mmp12*^{-/-};*c-fms-EGFP* mouse with myeloid cells expressing GFP was imaged 1 day after injury with 0.1 N NaOH. Images were obtained using *in vivo*, time-lapse confocal microscopy (Nikon C1si spectral confocal laser-scanning microscope). Individual images were taken every 3.22 seconds for 30 minutes.

Table S1. Real-time PCR Primer sequences

Gene	Forward (5' – 3')	Reverse (5' – 3')
<i>MMP12</i>	TGGGCAACTGGACAACCTCAACTCT	ACCGCTTCATCCATCTTGACCTCT
<i>CCL2</i>	TTAAAAACCTGGATCGGAACCAA	GCATTAGCTTCAGATTTACGGGT
<i>CCL7</i>	GCTGCTTTCAGCATCCAAGTG	CCAGGGACACCGACTACTG
<i>CCL8</i>	TCTACGCAGTGCTTCTTTGCC	AAGGGGGATCTTCAGCTTTAGTA
<i>CCL20</i>	GCCTCTCGTACATACAGACGC	CCAGTTCTGCTTTGGATCAGC
<i>VegfA</i>	CCAGACCTCTCACCGGAAAG	CTGTCAACGGTGACGATGATG
<i>VegfB</i>	GAGATGTCCCTGGAAGAACA	GAGTGGGATGGGTGATGTCAG
<i>Hprt</i>	GCCTAAGATGAGCGCAAGTTG	TACTAGGCAGATGGCCACAGG
<i>Sma</i>	GCAAACAGGAATACGACGAAGC	GCTTTGGGCAGGAATGATTTG
<i>Coll</i>	TGGATTCCCGTTCGAGTACG	ATTAGGCGCAGGAAGGTCAG
<i>Col3</i>	CTGTAACATGGAAACTGGGGAAA	CCATAGCTGAACTGAAAACCACC
<i>Gapdh</i>	AGGTCGGTGTGAACGGATTTG	TGTAGACCATGTAGTTGAGGTCA