

Supplemental Table S1. Plasmid construction.

| | PCR template | template | 5' primer | 3' primer | sites |
|----|------------------------------|-------------------------------|--|--|------------|
| 1 | GL for fusions | pGLuc Basic, NEB | atgcgaattcggcggagggtgggtccggaggcgggtg ggagcgccaagcccaccgagaacaacgaagacttc | gcatgcgccgcttagtcaccaccggcccccttg | EcoRI/NotI |
| 2 | secreted GL unfused | pGLuc Basic, NEB | atgctagcggccaccatggagtcgcaagtctcg | gcatgcgccgcttagtcaccaccggcccccttg | NheI/NotI |
| 3 | CXCL12-alpha for GL fusion | mCXCL12 (Luker et al., 2009b) | atgcctcagaggccaccatggagccaaggtcgtcg | gcatgaattcccctgtttaagctttctccaggtac | XhoI/EcoRI |
| 4 | CXCL12-beta for GL fusion | mCXCL12 (Luker et al., 2009b) | atgcctcagaggccaccatggagccaaggtcgtcg | gcatgaattcccctgttagcctctgtttaagct ttctccaggtac | XhoI/EcoRI |
| 5 | CXCL12-gamma for GL fusion | synthetic gene (IDT) | ctcaggccaccatggagccaaggtcgtcgcgtgc tggccctggtgctggcgcgctctgcatcagtgacggt aaaccagtacgctgagctaccgatgccctgccggt tcttcgagagccacatcgccagagccaacgtcaagca tctgaaaatcctcaactcctcaaaactgtcccttcaga ttgtgcacggctgaagaacaacaacagacaagtgtg cattgacccgaaattaaagtgatccaagagtacctg gagaaagctttaacaagggcgagagaagaaaa agtggggaaaaaagaaagataggaaaaaagaag cgacagaagaagagaaggctgccagaaaaaggaa aaacgggaattc | | XhoI/EcoRI |
| 6 | CXCL12-alpha unfused | mCXCL12 (Luker et al., 2009b) | atgcttagagccaccatggagccaagg | gcatgcgccgcttactgtttaagctttctccagg | XbaI/NotI |
| 7 | CXCL12-beta unfused | mCXCL12 (Luker et al., 2009b) | atgcttagagccaccatggagccaagg | gcatgcgccgctcacatcttagcctctgtttaaa g | XbaI/NotI |
| 8 | CXCL12-gamma unfused | synthetic gene (IDT) | atgcttagagccaccatggagccaagg | gcatgcgccgcttagttttcttttctggcagcc | XbaI/NotI |
| 9 | CXCL12-GL fusions for FU650W | fusion constructs in pEGFP-N1 | atgcttaattaagtaataacgagg (bases 6-27 of pEGFP-N1) | gcatttaattaatggtatggctgattatgac (bases 1413-1435 of pEGFP-N1) | PacI |
| 10 | CXCL12-GL fusions for pLVX | fusion constructs in pEGFP-N1 | atgcttagagccaccatggagccaagg | gcatgcgccgcttagtcaccaccggcccccttg | XbaI/NotI |
| 11 | AcGFP-nuc | pAcGFP1-Nuc (Clontech) | atgcttagagcagagctgggttagtgaaccg | atgtggtatggctgattaatgac | XbaI |

Luker, K., M. Gupta, and G. Luker. 2009a. Bioluminescent CXCL12 fusion protein for cellular studies of CXCR4 and CXCR7. *Biotechniques*. 47:625-632.