

Supplementary Materials: Therapeutic Angiogenesis by a “Dynamic Duo”: Simultaneous Expression of HGF and VEGF165 by Novel Bicistronic Plasmid Restores Blood Flow in Ischemic Skeletal Muscle

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S1. IRES sequences from EMCV, Bip, FGF1 and eIF4G genes

EMCV (575 bp) from IRESite (http://iresite.org/IRESite_web.php?page=view&entry_id=140)

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CCCCCTCTCCCTCCCCCCCCCTAACGTTACTGGCCGAAGCCGCTTGAATAAGGCCGGTGTG
CGTTTGTCTATATGTTATTTTCCACCATAATTGCCGTCTTTTGGCAATGTGAGGGCCCGGAAAC
CTGGCCCTGTCTTCTTGACGAGCATTCTAGGGGTCTTTCCCTCTCGCCAAAGGAATGCAA
GGTCTGTTGAATGTCGTGAAGGAAGCAGTTCCTCTGGAAGCTTCTTGAAGACAAACAACGT
CTGTAGCGACCCTTTGCAGGCAGCGGAACCCCCACCTGGCGACAGGTGCCTCTGCGGCCA
AAAGCCACGTGTATAAGATACACCTGCAAAGGCGGCACAACCCAGTGCCACGTTGTGAG
TTGGATAGTTGTGGAAAGAGTCAAATGGCTCTCCTCAAGCGTATTCAACAAGGGGCTGAAG
GATGCCCAGAAGGTACCCCATTTGTATGGGATCTGATCTGGGGCCTCGGTGCACATGCTTTAC
ATGTGTTTAGTCGAGGTTAAAAAACGTCTAGGCCCCCGAACCACGGGGACGTGGTTTTTC
CTTTGAAAAACACGATGATAAT
```

FGF1 IRES A (168 bp) from IRESite (http://iresite.org/IRESite_web.php?page=view&entry_id=519),
EMBL (<http://rfam.xfam.org/family/RF00387#tabview=tab1>)

```
CGCTCCAGGGGAATCAGGGCATCGCTCCTTTTCTGGGAGGACACTCCCTTCTGATGGTGA
ATGGGAACTCCCTTCCTCCTGCAGCAGCCTGCCTGCAGCTGTCCTGGTAGAACAGTGTGGA
CATTGCAGAAGCTGTCACTGCCCCAGAAAGAAAGCACCCCAGAGCC
```

Bip IRES (222 bp) from IRESite (http://iresite.org/IRESite_web.php?page=view&entry_id=593,
http://iresite.org/IRESite_web.php?page=view&entry_id=570), EMBL

(<http://www.ebi.ac.uk/ena/data/view/X87949.1>), Genbank

(https://www.ncbi.nlm.nih.gov/nuccore/NM_005347)

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AGGTCGACGCCGCAAGACAGCACAGACAGATTGACCTATTGGGGTGTTCGCGAGTGTG
AGAGGGAAGCGCCGCGGCCTGTATTTCTAGACCTGCCCTTCGCCTGGTTCGTGGCGCCTTGT
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GACCCCGGGCCCCTGCCGCCTGCAAGTCGAAATTGCGCTGTGCTCCTGTGCTACGGCCTGT
GGCTGGACTGCCTGCTGCTGCCCAACTGGCTGGCAAG

eIF4G IRES (368 bp) from IRESite (http://iresite.org/IRESite_web.php?page=view&entry_id=548),
EMBL (<http://www.ebi.ac.uk/ena/data/view/D12686>), Genbank
(<https://www.ncbi.nlm.nih.gov/nucleotide/219612>)

TCTAGATGGGGTCCTGGGCCCCAGGGTGTGCAGCCACTGACTTGGGGACTGCTGGTGGGG
TAGGGATGAGGGAGGGAGGGGCATTGTGATGTACAGGGCTGCTCTGTGAGATCAAGGGTC
TCTTAAGGGTGGGAGCTGGGGCAGGGACTACGAGAGCAGCCAGATGGGCTGAAAGTGGAA
CTCAAGGGGTTTCTGGCACCTACCTACCTGCTTCCCGCTGGGGGGTGGGGAGTTGGCCCAG
AGTCTTAAGATTGGGGCAGGGTGGAGAGGTGGGCTCTTCTGCTTCCCACTCATCTTATAGC
TTTCTTTCCCCAGATCCGAATTCGAGATCCAAACCAAGGAGGAAAGGATATCACAGAGGA
GATC

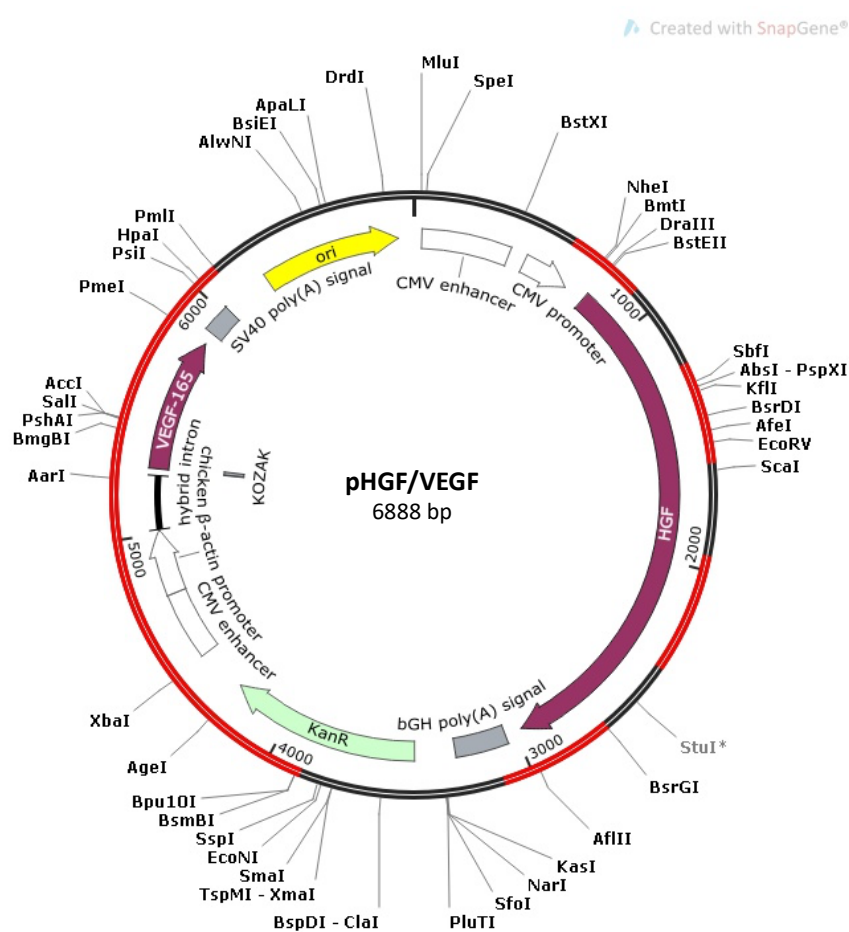


Figure S2. pHGF/VEGF scheme