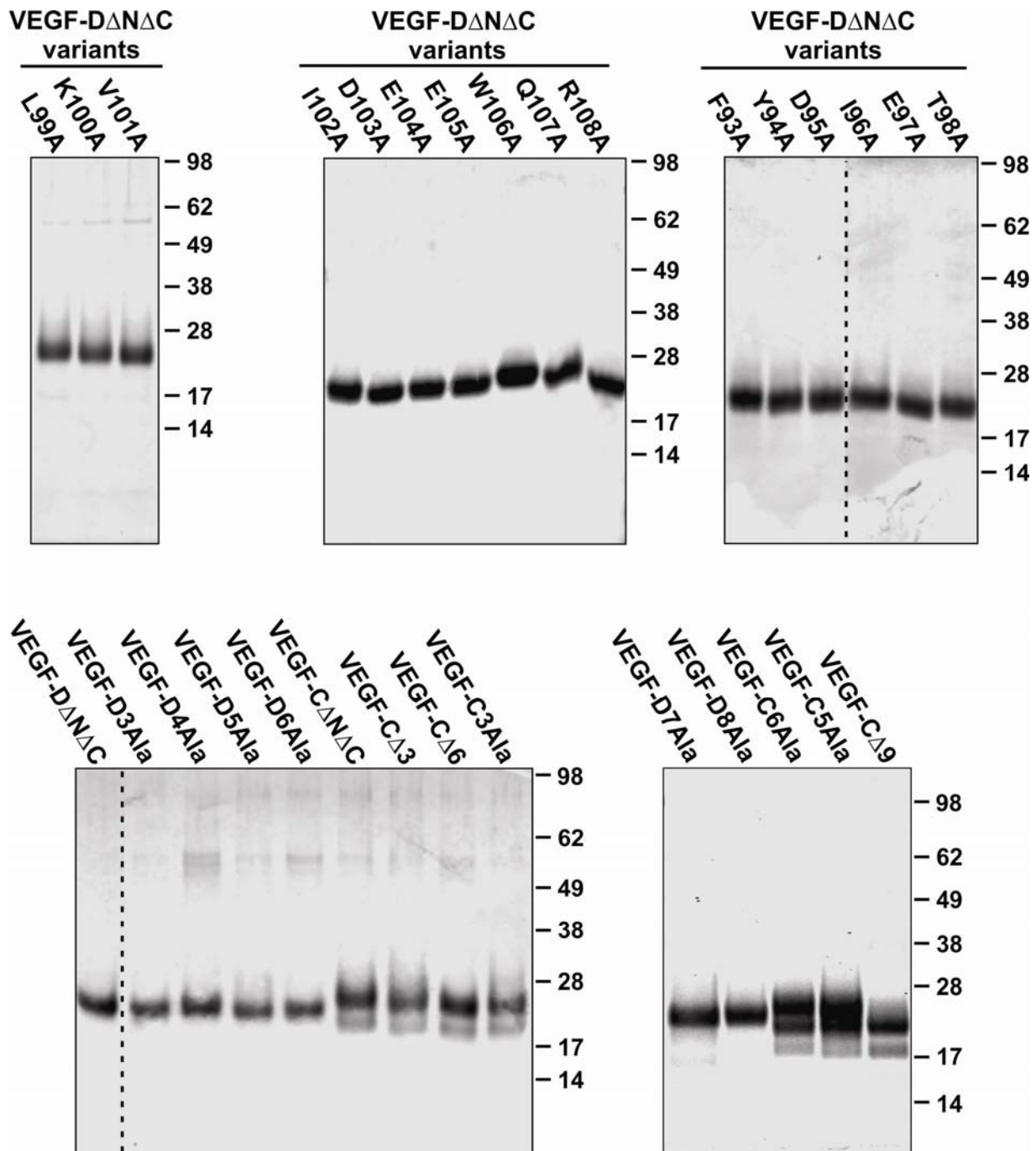


SUPPLEMENTAL INFORMATION

Differential Receptor Binding and Regulatory Mechanisms for the Lymphangiogenic Growth Factors
VEGF-C and VEGF-D

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Supplementary Figure 1. Analysis of purified variants of VEGF-D Δ N Δ C and VEGF-C Δ N Δ C used in this study by SDS-PAGE and Coomassie staining. Proteins (approximately 1 μ g) were subjected to SDS-PAGE under reducing conditions and stained with Coomassie Brilliant Blue. The expected sizes of the subunits of VEGF-D Δ N Δ C and VEGF-C Δ N Δ C variants are ~22 and ~24 kDa, respectively. The multiple bands detected in the 18 to 24 kDa range for variants of VEGF-C Δ N Δ C are likely due to variable degrees of glycosylation. Dotted lines indicate where irrelevant tracks have been removed from the images. Molecular weight markers in kDa are shown to the right of the images.

Supplementary Table 1. Nucleotide sequences of primers used to generate protein variants by site-directed mutagenesis.

Protein variant ¹	Primer pair sequence ²
F93A	gacgacgacaagacgcgtaacgcctatgacattgaaacactaaa tttagtgttcaatgcatagggcttacgctctgtcgtcgtc
Y94A	gacgacgacaagacgcgtaattcgctgacattgaaacactaaaagttat ataacttttagtgttcaatgcatagcgaaattacgctctgtcgtcgtc
D95A	cgacaagacgcgtaacttctatgccattgaaacactaaaagttataga tctataacttttagtgttcaatggcatagaagttacgctctgtcgtc
I96A	cgacaagacgcgtaacttctatgacgctgaaacactaaaagttatagatgaa ttcatctataacttttagtgttcagcgtcatagaagttacgctctgtcgtc
E97A	gacgcgtaacttctatgacattgcaacactaaaagttatagatgaag cttcatctataacttttagtgttcaatgcatagaagttacgctc
T98A	caagacgcgtaacttctatgacattgaaacactaaaagttatagatg catctataacttttagtgttcaatgcatagaagttacgctctgtc
L99A	gcgtaacttctatgacattgaaacagcaaaagttatagatgaagaatggcaa ttgccattctcatctataactttgtgttcaatgcatagaagttacgc
K100A	gcgtaatttctatgacattgaaacactagcagttatagatgaagaatggcaa ttgccattctcatctataactgtagtgttcaatgcatagaagttacgc
V101A	tctatgacattgaaacactaaaagctatagatgaagaatggcaagaac gttctttgccattctcatctatagcttttagtgttcaatgcataga
I102A	cttctatgacattgaaacactaaaagttgcagatgaagaatggcaagaactca tgagttctttgccattctcatctgcaacttttagtgttcaatgcatagaag
D103A	cattgaaacactaaaagttatagctgaaagttggcaagaactcag ctgagttctttgccattctcatctataacttttagtgttcaatg
E104A	gaaacactaaaagttatagatgcaagaatggcaagaactcagtc gcaactgagttctttgccattctcatctataacttttagtgttca
E105A	cactaaaagttatagatgaagcattggcaagaactcagtcag ctgcaactgagttctttgccattctcatctataacttttagtgt
W106A	attgaaacactaaaagttatagatgaagaagcgaagaactcagtcagc gctgcactgagttctttgccattctcatctataacttttagtgttcaat
Q107A	aaagttatagatgaagaatggcaagaactcagtcagccctag ctagggctgcactgagttctgtccattctcatctataacttt
R108A	gttatagatgaagaatggcaagaactcagtcagccctagag ctctagggctgcactgagttctgtccattctcatctataac
Y94A (U)	gcttcaatctcgcgcgtaatttcgctgacattgaaacactaaaagttat ataacttttagtgttcaatgcatagcgaaattacgctcggagattgaagc
K100A (U)	cgcgtaatttctatgacattgaaacactagcagttatagatgaagaatggcaa tttgccattctcatctataactgtagtgttcaatgcatagaagttacgcg
I102A (U)	atttctatgacattgaaacactaaaagttgcagatgaagaatggcaagaactcag ctgagttctttgccattctcatctgcaacttttagtgttcaatgcatagaat
VEGF-D3Ala	caaggacgacgacgacaagacgcgtaacgctgcaactgaaacactaaaagttatagatgaag cttcatctataacttttagtgttcaatggcagcggttacgctctgtcgtcgtcgtccttg
VEGF-D5Ala	caagacgcgtaatgccgctgcccgtgcaacactaaaagttatagatgaag ttcatctataacttttagtgttcagcggcagcggcattacgctctgtc
VEGF-D6Ala	gacaagacgcgtaatgccgctgcccgtgcaactaaaagttatagatgaagaatg cattctcatctataacttttagtgtcagcggcagcggcattacgctctgtc
VEGF-D7Ala	cgctgcagcagcaaaaagttatagatgaagaatggc gcagcggcattacgctc
VEGF-D8Ala	tgacgacgacgagttatagatgaagaatggcaagaac gcccagcggcattacgc
VEGF-C3Ala	tcaaggacagaagagactataaaatttgctgcagcagctgctgctcagagatcttgaagaattgataatgagtgag ctccactcattatcaatactttcaagatctctgtagcagcagctgctgcagcaaatttatagctctctgtccttga
VEGF-C5Ala	tcaatactttcaagatcgtcagcagcagctgctgcag ctgcagcagctgctgctgcagcagcttgaagaattgga
VEGF-C6Ala	tgctgcagcggccttgaagaattgga gcagcgtcgtcagcaaat
VEGF-C7Ala	tgacgcccgcgcaaaagttatgataatgagtgag gcagcagctgctgcagca
VEGF-C8Ala	tgacgcccgcgcaagttatgataatgagtgaggaagaac gcagcagctgctgcagca
VEGF-CΔ3	actttcaagatctctgtattatgctgcagcaaatttatagctc gagactataaaatttgctgcagcatataacagagatcttgaagaatg
VEGF-CΔ6	aatactttcaagatctctgtatttgctgcagcaaatttatagctc gagactataaaatttgctgcagcaaatacagagatcttgaagaatg
VEGF-CΔ9	agagactataaaatttgctgcagcaacagagatcttgaagaatgga tcaatactttcaagatctctgtgctgcagcaaatttatagctct

¹All proteins are tagged with the FLAG octapeptide except those indicated by "(U)" which are untagged

²For each primer pair, the first line is forward primer and the second is reverse primer