

The function of COL1A1 in GC

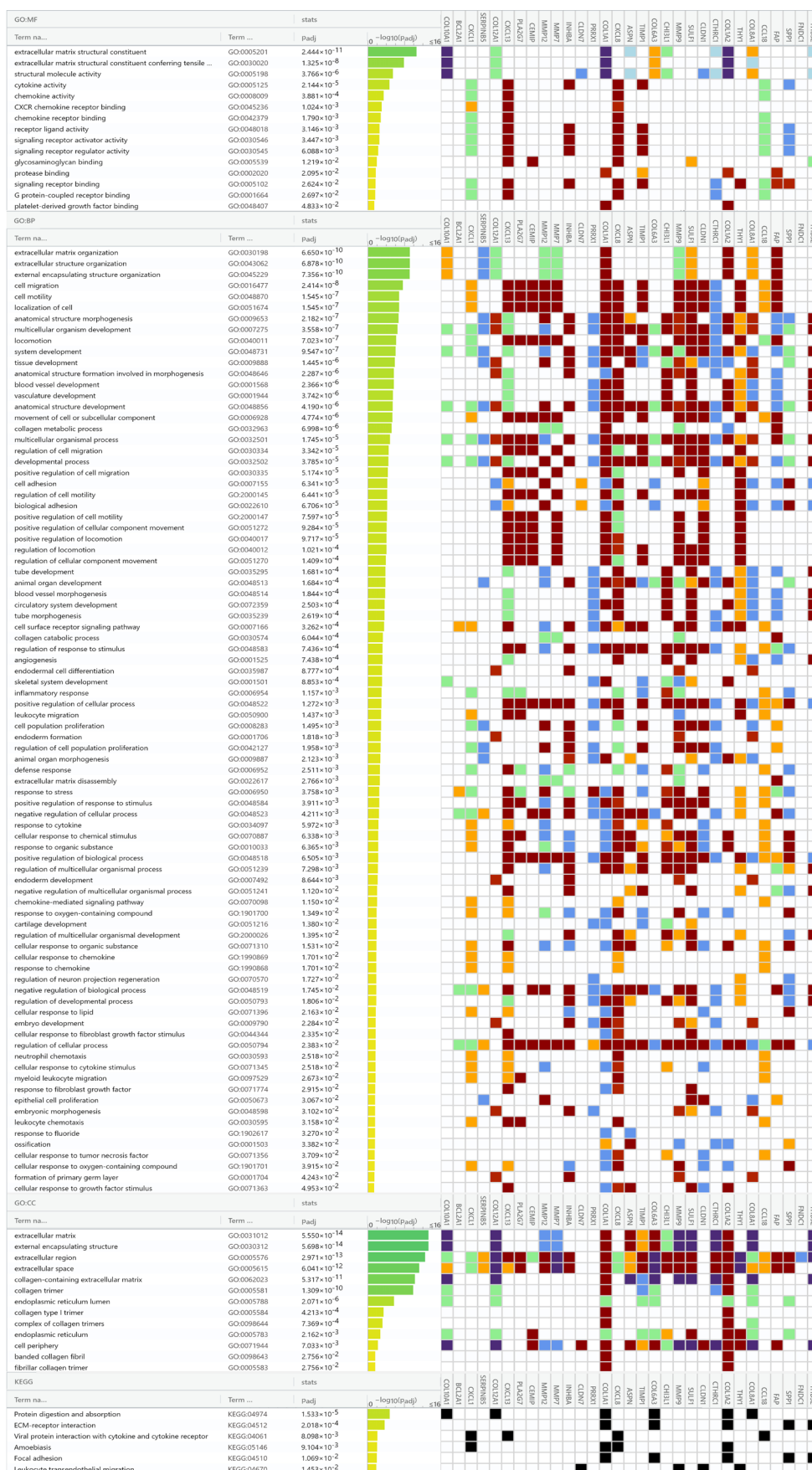


Figure S2. The function enrichment analysis of up-regulated genes in GC. The MF, BP, CC and KEGG pathway were list with term name, ID, p-value and enriched genes. The significance threshold was g.SCS threshold.

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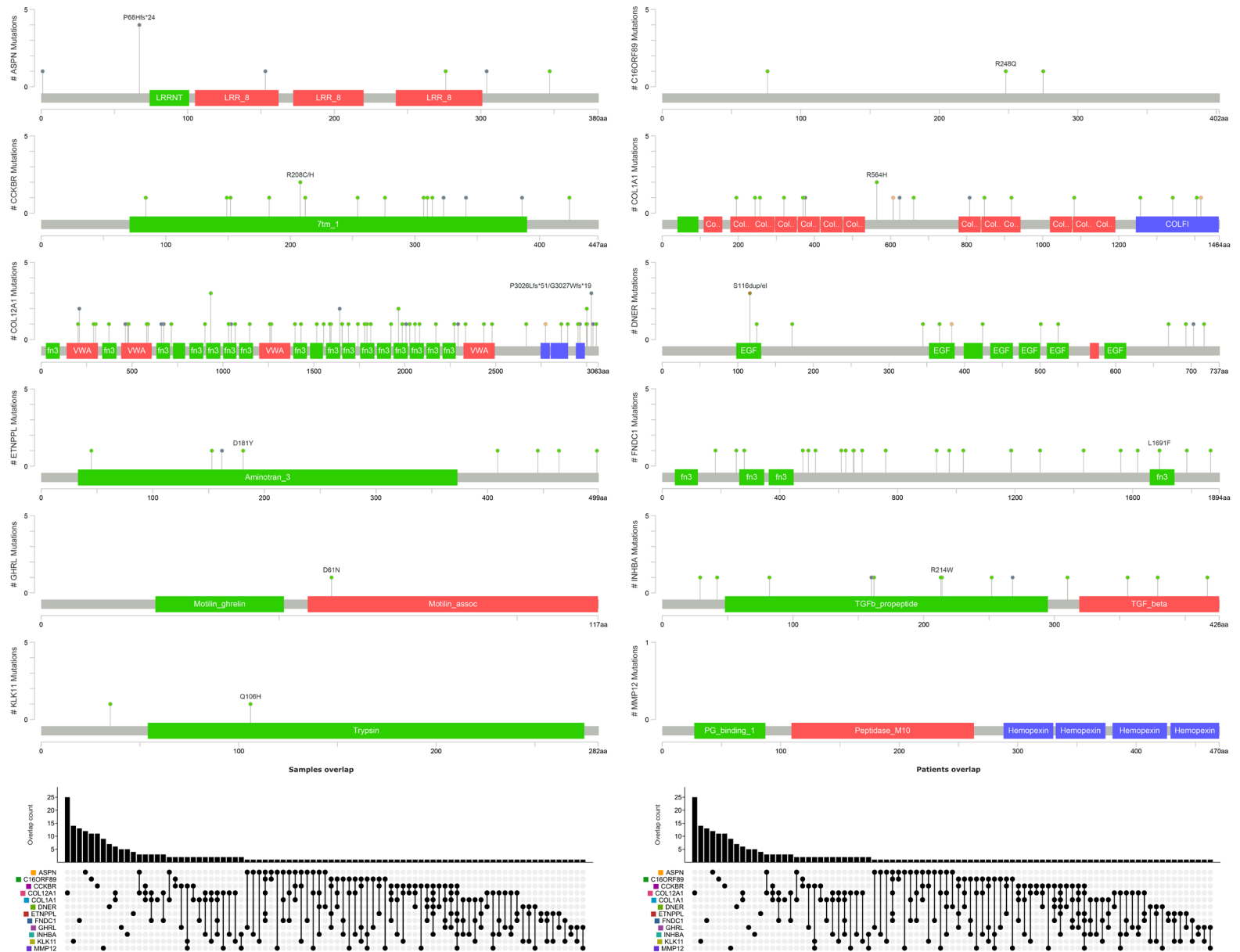


Figure S3. The mutation diagram of 12 DEGs (ASPN, C16orf89, CCKBR, COL1A1, COL12A1, DNER, ETNPPL, FNDC1, GHRL, INHBA, KLK11 and MMP12). The mutation data was obtained from TCGA. The overlap diagram of patients or samples were listed at the bottom.

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GO:MF			stats						
Term na...	Term ...	Padj	$-\log_{10}(P_{adj})$	ASP	COL1A1	COL12A1	FND	INH	MMP
extracellular matrix structural constituent	GO:0005201	2.043×10^{-3}	0						
extracellular matrix structural constituent conferring tensile ...	GO:0030020	1.010×10^{-2}							
collagen binding	GO:0005518	2.878×10^{-2}							
GO:BP			stats						
Term na...	Term ...	Padj	$-\log_{10}(P_{adj})$	ASP	COL1A1	COL12A1	FND	INH	MMP
response to fluoride	GO:1902617	3.589×10^{-4}							
odontogenesis	GO:0042476	1.858×10^{-3}							
tissue development	GO:0009888	4.908×10^{-3}							
tooth mineralization	GO:0034505	1.354×10^{-2}							
anatomical structure morphogenesis	GO:0009653	2.684×10^{-2}							
extracellular matrix organization	GO:0030198	2.785×10^{-2}							
extracellular structure organization	GO:0043062	2.811×10^{-2}							
external encapsulating structure organization	GO:0045229	2.863×10^{-2}							
endodermal cell differentiation	GO:0035987	3.700×10^{-2}							
GO:CC			stats						
Term na...	Term ...	Padj	$-\log_{10}(P_{adj})$	ASP	COL1A1	COL12A1	FND	INH	MMP
extracellular matrix	GO:0031012	1.146×10^{-3}							
external encapsulating structure	GO:0030312	1.154×10^{-3}							
extracellular region	GO:0005576	1.103×10^{-2}							
collagen-containing extracellular matrix	GO:0062023	2.516×10^{-2}							
collagen trimer	GO:0005581	4.878×10^{-2}							
activin A complex	GO:0043509	4.997×10^{-2}							
collagen type XII trimer	GO:0005595	4.997×10^{-2}							
activin complex	GO:0048180	4.997×10^{-2}							
KEGG			stats						
Term na...	Term ...	Padj	$-\log_{10}(P_{adj})$	ASP	COL1A1	COL12A1	FND	INH	MMP
Protein digestion and absorption	KEGG:04974	2.253×10^{-2}							

Figure S4. The function enrichment analysis of COL1A1, COL12A1, ASPN, FNDC1, INHBA and MMP12 in GC. The MF, BP, CC and KEGG pathway were list with term name, ID, *p*-value and enriched genes. The significance threshold was *g*.SCS threshold.