Supplemental file 4

Overview of bioactivities found with the Milk Bioactive Peptide Database (MBPDB) that match with identified peptide sequences (Nielsen et al., 2017). *Colour gradient represents high numbers (green) to low numbers (red) of peptides matching with bioactivities.*

	Number of times bioactivities were found for peptide sequences identified:			
Bioactivity	More abundant in HMK	More abundant in RMK	Uniquely in HMK	Uniquely in RMK
ACE-inhibitory	328	255	40	63
Antioxidant	173	119	20	39
Antimicrobial	143	121	18	34
DPP-IV inhibitory	92	85	7	23
Anti-inflammatory	51	15	15	6
Opioid	48	27	2	9
Immunomodulatory	37	32	5	12
Anticancer	26	22	1	7
Inhibition of cholesterol solubility	20	14	2	4
Prolyl endopeptidase-inhibitory	20	19	0	6
Osteoanabolic	18	13	5	2
Bradykinin-potentiating	17	3	0	0
Increase MUC4 expression	12	4	1	1
Growth-promoting	11	4	2	2
Anxiolytic	10	10	0	4
Cytomodulatory	10	11	2	3
Antithrombotic	8	4	2	3
Ameliorates insulin resistance	6	1	2	0
Antihypertensive	6	3	0	1
Increases jejunal mucus secretion	6	8	0	3
Increases MUC2 expression	6	8	0	3
Increases MUC3 expression	6	8	0	3
Increases MUC5a expression	6	8	0	3
Reduces pancreas MDA level	6	8	0	3
Satiety	6	8	0	3
Cathepsin B inhibitory	5	7	0	3
Antithrombin	4	0	1	0
Anti-apoptotic effect	3	2	1	0
Wound healing	3	2	1	0
Cytotoxic	2	0	0	0
Non-functional	2	6	0	2
Cancer	1	3	0	1
Improves learning and memory	1	3	0	1

Increases intestinal motility	1	3	0	1
Promote neurite outgrowth	1	3	0	1
Stimulates proliferation	1	0	0	0
Increase small intestinal goblet cell density	0	1	0	0
Promote calcium uptake	0	2	0	1
Protective effects in indomethacin-induced enteritis through preservation of goblet cells and improvement in wound healing	0	1	0	0