Electronic Supplementary Material (ESI) for Metallomics.
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Table S3. Putative binding sites for transcription factors involved in stress response in *OdMT1* and *OdMT2* regulatory regions[1].

Matrix Family	Detailed Family Information	Matrix	Detailed Matrix Information	Tissue	Opt.	Start position	End position	Anchor position	Strand	Core sim.	Matrix sim.	Mat. sim. - opt.	Sequence
OdMT1													
FSYNIT	Asperg./Neurospora-activ. of genes induced by nitrogen	FSNIT2.01	Activator of nitrogen-regulated genes		0.99	27	33	30	-	1	0.994	0.004	TATCaaa
VSPERO	Peroxisome proliferator-activated receptor	VSPPARG.03	Peroxisome proliferator-activated receptor gamma, DR1 sites	Adipose Tissue Connective Tissue Digestive System Liver	0.83	19	41	30	-	1	0.849	0.019	tttgccttatcAAAGttcaccg
VSRXRF	RXR heterodimer binding sites	VSTHRB.03	Thyroid hormone receptor, beta (ERE6 - everted repeat, spacer 6)	Bone and Bones Brain Central Nervous System Connective Tissue Digestive System Ear Endocrine System Integumentary System Liver Nervous System Parathyroid Glands Pituitary Gland Skeleton Thyroid Gland	0.75	18	42	30	+	0.796	0.791	0.041	cggtgaacttgatnAGGCaaaaa
VSNFAT	Nuclear factor of activated T-cells	VSNFATC1.01	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1, dimeric binding site	Blood Cells Cardiovascular System Cartilage Connective Tissue Heart Immune System Leukocytes Lymphocytes Myeloid Cells	0.78	105	123	114	-	0.831	0.794	0.014	tttgcTTGcaacaagtca
VSRXRF	RXR heterodimer binding sites	VSRARG.01	Retinoic acid receptor gamma, homodimer DR2 binding site	Bone and Bones Brain Central Nervous System Connective Tissue Digestive System Ear Endocrine System Integumentary System Liver Nervous System Parathyroid Glands Pituitary Gland Skeleton Thyroid Gland	0.84	108	132	120	-	1	0.935	0.095	ggcttgaccTTTTGctggaacaag
FSHSF	Yeast heat shock factors	FSHSF.01	Heat shock factor (yeast)		0.85	122	154	138	+	0.8	0.89	0.04	aagctcaagccttTTTagaaacgtctcaaattg
PSHEAT	Heat shock factors	PSHSFB3.01	Heat stress transcription factor B-3		0.83	127	149	138	-	1	0.864	0.034	tgagacgTTTCTaaaaagcttg
VSHEAT	Heat shock factors	VSHSF2.02	Heat shock factor 2	ubiquitous	0.95	126	150	138	+	1	0.959	0.009	tcaagcctttrAGAAacgtctcaa
FSMREF	Metal regulatory element factors	FSCUSE.01	Copper-signaling element, AMT1/ACE1 recognition sequence		0.88	173	187	180	-	1	0.94	0.06	caatttatGCTGaaa
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPD.01	CCAAT/enhancer binding protein (C/EBP), delta	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.92	181	195	188	-	1	0.972	0.052	aaaTGTGgaagct
PSHEAT	Heat shock factors	PSHSFB3.01	Heat stress transcription factor B-3		0.83	178	200	189	-	0.845	0.888	0.056	actcaagcTTCCacaattatgc
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPE.01	CCAAT/enhancer binding protein (C/EBP), epsilon	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.79	182	196	189	-	0.816	0.822	0.032	aagcttccACAAtt
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPE.01	CCAAT/enhancer binding protein beta	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.94	191	205	198	+	0.94	0.957	0.017	aagcttgaGTAAttg
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPE.01	CCAAT/enhancer binding protein (C/EBP), epsilon	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.79	192	206	199	-	0.77	0.799	0.009	gcaattactCAAgct
FSBZIP	Fungal basic leucine zipper family	FSYAP1.01	Yeast activator protein of the basic leucine zipper (bZIP) family		0.76	191	211	201	-	1	0.771	0.011	agcctgcaaTTACctaagctt
VSEBOX	E-box binding factors	VSMAX.03	MYC associated factor X	ubiquitous	0.9	204	220	212	-	1	0.911	0.011	ctccCACGagcctgca
FSYNIT	Asperg./Neurospora-activ. of genes induced by nitrogen	FSNIT2.01	Activator of nitrogen-regulated genes		0.99	216	222	219	-	1	0.994	0.004	TATCcc
VSNFAT	Nuclear factor of activated T-cells	VSNFAT5.02	Nuclear factor of activated T-cells 5	Blood Cells Cardiovascular System Cartilage Connective Tissue Heart Immune System Leukocytes Lymphocytes Myeloid Cells	0.87	226	244	235	+	1	0.878	0.008	ccatGGAAaagcaagctgc
VSNFAT	Nuclear factor of activated T-cells	VSNFATC1.01	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1, dimeric binding site	Blood Cells Cardiovascular System Cartilage Connective Tissue Heart Immune System Leukocytes Lymphocytes Myeloid Cells	0.78	230	248	239	-	1	0.841	0.061	ttgaccATGGaaaagcaag
FSYEL	Yeast heat shock factors	FSHSFY.01	Trimeric heat shock transcription factor		0.95	224	256	240	-	1	0.969	0.019	accggatttgaccatGGAAaagcaagctgcaa
VSNFAT	Nuclear factor of activated T-cells	VSNFATC1.01	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1, dimeric binding site	Blood Cells Cardiovascular System Cartilage Connective Tissue Heart Immune System Leukocytes Lymphocytes Myeloid Cells	0.78	235	253	244	+	1	0.898	0.118	tttccATGGtcaaaatcg
VSRORA	v-ERB and RAR-related orphan receptor alpha	VSRORA.02	RAR-related orphan receptor alpha, homodimer DR5 binding site	Blood Cells Brain Central Nervous System Endocrine System Immune System Leukocytes Lymphocytes Nervous System Pineal Gland	0.75	234	258	246	+	1	0.816	0.066	cttttcaatGTGTCaaaatcggggttt
VSRXRF	RXR heterodimer binding sites	VSRXR_RXR.01	Retinoid X receptor homodimer, DR1 sites	Bone and Bones Brain Central Nervous System Connective Tissue Digestive System Ear Endocrine System Integumentary System Liver Nervous System Parathyroid Glands Pituitary Gland Skeleton Thyroid Gland	0.76	250	274	262	+	0.833	0.785	0.005	atcggctttagaGCTTCaagcttctt
HSDHSF	Drosophila heat shock factors	HSHSF.01	Heat shock factor (Drosophila)		0.77	254	278	266	-	1	0.778	0.008	gttcaACGAAgcttgagcttcaaacc
VSRXRF	RXR heterodimer binding sites	VSVDR_RXR.05	Bipartite binding site of VDR/RXR heterodimers, DR4 sites	Bone and Bones Brain Central Nervous System Connective Tissue Digestive System Ear Endocrine System Integumentary System Liver Nervous System Parathyroid Glands Pituitary Gland Skeleton Thyroid Gland	0.79	260	284	272	-	0.952	0.611	0.021	gccCAGGttcaagaagcttgagctc
FSHSF	Yeast heat shock factors	FSHSF.01	Heat shock factor (yeast)		0.85	257	289	273	-	0.8	0.872	0.022	aaactgcCgaggTTCAagaagcttgagctctaa
PSHEAT	Heat shock factors	PSHSFA4A.01	Heat stress transcription factor A-4a (HSF21)		0.81	262	284	273	+	1	0.892	0.082	gctcaagcTTCTtgaacctcggc
VSHEAT	Heat shock factors	VSHSF2.01	Heat shock factor 2	ubiquitous	0.88	261	285	273	+	1	0.888	0.008	tgccgaggttcaaGAAGcttgaagct
FSHSF	Yeast heat shock factors	FSHSF.01	Heat shock factor (yeast)		0.85	258	290	274	+	1	0.872	0.022	tagagctcaagcTTCTtgaacctcggcagttt
PSHEAT	Heat shock factors	PSHSFC1.01	Heat shock transcription factor C1		0.86	263	285	274	-	0.762	0.683	0.023	tgccgaggTCAAGaagcttgag
VSHEAT	Heat shock factors	VSHSF2.03	Heat shock factor 2	ubiquitous	0.75	262	286	274	+	0.764	0.78	0.03	gctcaagcttctTGAAcctcggcag
VSHEAT	Heat shock factors	VSHSF1.05	Heat shock factor 1	ubiquitous	0.92	267	291	279	-	0.807	0.932	0.012	caaaactgccgaggttcAAGaagct
FSBZIP	Fungal basic leucine zipper family	FSYAP1.02	Yeast activator protein of the basic leucine zipper (bZIP) family		0.93	333	353	343	-	1	0.934	0.004	cctggccgagttgGTAAttga
VSFXRE	Farnesoid X - activated receptor response elements	VSFXRE.01	Farnesoid X - activated receptor (RXR/FXR dimer), IR1 sites	Digestive System Gallbladder Liver	0.8	351	363	357	+	1	0.842	0.042	AGGTcctaagct
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPG.01	CCAAT/enhancer binding protein (C/EBP), gamma	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.84	367	381	374	+	1	0.982	0.142	tccaTTGCgcaaggg
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPG.01	CCAAT/enhancer binding protein (C/EBP), gamma	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.84	368	382	375	+	1	0.961	0.121	tccCTTGCgcaaggg
VSAP1R	MAF and AP1 related factors	VSMARE.03	Binding sites for heterodimers with small Maf proteins	Antibody-Producing Cells Blood Cells Blood Platelets Bone Marrow Cells Digestive System Ear Endocrine System Eye Hematopoietic System Immune System Islets of Langerhans Liver Pancreas	0.82	385	409	397	+	0.81	0.868	0.048	tattctcCTattcagctccgaaa
VSHEAT	Heat shock factors	VSHSF1.04	Heat shock factor 1	ubiquitous	0.76	394	418	406	+	0.85	0.817	0.057	tattcacgttccgaaaaaTTCACaa
PSHEAT	Heat shock factors	PSHSFB3.01	Heat stress transcription factor B-3		0.83	482	484	473	-	0.801	0.843	0.013	agagcagTTCAaaaacagcatt
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPA.02	CCAAT/enhancer binding protein alpha	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.89	466	480	473	-	0.904	0.902	0.012	ctgttttCAAActg
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPA.02	CCAAT/enhancer binding protein alpha	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.94	490	504	497	-	1	0.942	0.002	cttattcCCAAgtc
VSAHRR	AHR-arnt heterodimers and AHR-related factors	VSAHRARNT.02	Aryl hydrocarbon / Arnt heterodimers, fixed core	Digestive System Liver	0.77	501	525	513	-	0.75	0.792	0.022	tgccgcaaattCCCGTgtgaacctta
VSGMEB	Glucocorticoid modulatory element binding proteins	VSGMEB2.01	Glucocorticoid modulatory element binding protein 2		0.75	511	525	518	+	0.768	0.786	0.036	CACGGaaatggcga
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPA.01	CCAAT/enhancer binding protein alpha	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.94	515	529	522	+	1	0.945	0.005	gaattgcGCCAAgaa
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPE.02	CCAAT/enhancer binding protein (C/EBP), epsilon	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.97	516	530	523	-	1	0.976	0.006	attctgcGCCAAtt
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPG.01	CCAAT/enhancer binding protein (C/EBP), gamma	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.84	526	540	533	+	0.75	0.847	0.007	agaaTAGCgcaaatt
VSRXRF	RXR heterodimer binding sites	VBPXR_RXR.01	Pregnane X receptor / retinoid X receptor heterodimer, DR4 sites	Bone and Bones Brain Central Nervous System Connective Tissue Digestive System Ear Endocrine System Integumentary System Liver Nervous System Parathyroid Glands Pituitary Gland Skeleton Thyroid Gland	0.8	562	586	574	+	0.791	0.837	0.037	aaaaaGCTCaaaaagtggaatttc
PSHEAT	Heat shock factors	PSHSFB3.01	Heat stress transcription factor B-3		0.83	576	598	587	+	1	0.841	0.011	agtggaatTTCtaaatctattta
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPB.01	CCAAT/enhancer binding protein beta	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.94	580	594	587	-	1	0.969	0.029	tagatttaGAAAtc
VSAP1R	MAF and AP1 related factors	VSMARE_ARE.01	Antioxidant response elements	Antibody-Producing Cells Blood Cells Blood Platelets Bone Marrow Cells Digestive System Ear Endocrine System Eye Hematopoietic System Immune System Islets of Langerhans Liver Pancreas	0.76	613	637	625	-	1	0.891	0.131	aattctgctctgTTCAaactatctat
FSXBP	S.cerevisiae, Xhol site-binding protein I	FSXBP1.02	Stress-induced transcriptional repressor		0.91	680	692	686	-	1	0.937	0.027	ttcrTCGAaaaat
FSXBP	S.cerevisiae, Xhol site-binding protein I	FSXBP1.02	Stress-induced transcriptional repressor		0.91	681	693	687	+	1	0.937	0.027	tttrTCGAggaac
VSHEAT	Heat shock factors	VSHSF1.05	Heat shock factor 1	ubiquitous	0.92	683	707	695	+	0.801	0.926	0.006	tttcgaggaacatttttCGAGaaatt
VSHEAT	Heat shock factors	VSHSF1.04	Heat shock factor 1	ubiquitous	0.76	686	710	698	-	0.973	0.779	0.019	taaaatttctcgaaatgTTCCtcg
FSXBP	S.cerevisiae, Xhol site-binding protein I	FSXBP1.02	Stress-induced transcriptional repressor		0.91	693	705	699	-	1	0.935	0.025	tttcTCGAaaatg
FSXBP	S.cerevisiae, Xhol site-binding protein I	FSXBP1.02	Stress-induced transcriptional repressor		0.91	694	706	700	+	1	0.949	0.039	atttTCGAgaaat
FSHSF	Yeast heat shock factors	FSHSF.01	Heat shock factor (yeast)		0.85	684	716	700	-	1	0.931	0.081	aaagtgaaaaatTTCTcgaaaatgtcctcgaa
PSHEAT	Heat shock factors	PSHSFC1.01	Heat shock transcription factor C1		0.86	689	711	700	+	0.775	0.902	0.042	ggaacatttCGAGaaatttac
VSHEAT	Heat shock factors	VSHSF2.03	Heat shock factor 2	ubiquitous	0.75	688	712	700	-	0.768	0.763	0.013	tgtaaatttctCGAAaatgtcct
FSHSF	Yeast heat shock factors	FSHSF.01	Heat shock factor (yeast)		0.85	685	717	701	+	0.8	0.904	0.054	tcgaggaacattTTCGaggaatttaacatttc
PSHEAT	Heat shock factors	PSHSFC1.01	Heat shock transcription factor C1		0.86	690	712	701	-	0.775	0.902	0.042	tgtaaaatttCTCGaaaatgttc
VSHEAT	Heat shock factors	VSHSF1.01	Heat shock factor 1	ubiquitous	0.84	689	713	701	+	1	0.889	0.049	ggaacatttcgAGAAattttacac
HSDHSF	Drosophila heat shock factors	HSHSF.01	Heat shock factor (Drosophila)		0.77	696	720	708	+	1	0.774	0.004	tttcgAGAAatttttaactttcacg
FSYNIT	Asperg./Neurospora-activ. of genes induced by nitrogen	FSNIT2.01	Activator of nitrogen-regulated genes		0.99	747	753	750	+	1	0.994	0.004	TATCaag
PSHEAT	Heat shock factors	PSHSE.01	Heat shock element		0.81	740	762	751	+	1	0.831	0.021	aaaaaaatatcaGAGAAaattaag
PSHEAT	Heat shock factors	PSHSFA8B.01	Heat stress transcription factor A-6b		0.81	741	763	752	-	1	0.868	0.058	gctaattTTCTgatatttttt
VSEBOX	E-box binding factors	VSMNT.01	MAX binding protein	ubiquitous	0.84	802	818	810	-	0.753	0.841	0.001	acaaaCACGtgccaaa
VACREB	CAMP-responsive element binding proteins	VSXBP1.01	X-box binding protein 1	Brain Central Nervous System Endocrine System Nervous System Pineal Gland	0.88	830	850	840	+	1	0.904	0.024	taaattttaCGTgttacggac
FSBZIP	Fungal basic leucine zipper family	FSHAC1.01	bZIP transcription factor (ATF/CREB1 homolog) that regulates the unfolded protein response		0.93	832	852	842	-	1	0.974	0.044	gtgtccgtaaCACGctaaatt
PSHEAT	Heat shock factors	PSHSFA6B.01	Heat stress transcription factor A-6b		0.81	852	874	863	-	1	0.843	0.033	aagaaaagTTCTtgagccacttg
VSHEAT	Heat shock factors	VSHSF1.01	Heat shock factor 1	ubiquitous	0.84	851	875	863	+	1	0.85	0.01	acaagtggctcaAGAACttttctc
VSNFAT	Nuclear factor of activated T-cells	VSNFATC1.01	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1, dimeric binding site	Blood Cells Cardiovascular System Cartilage Connective Tissue Heart Immune System Leukocytes Lymphocytes Myeloid Cells	0.78	866	884	875	-	0.834	0.794	0.014	tttttcGTGGaagaaagt
VSGMEB	Glucocorticoid modulatory element binding proteins	VSGMEB2.01	Glucocorticoid modulatory element binding protein 2		0.75	876	890	883	+	0.798	0.756	0.006	CACGAaaaatatgca
FSYEL	Yeast heat shock factors	FSHSF.01	Trimeric heat shock transcription factor		0.95	881	913	897	+	1	1	0.05	aaaatatgcaaaaaatGGAAcacaaaaaaaaaa
FSBZIP	Fungal basic leucine zipper family	FSHAC1.02	bZIP transcription factor (ATF/CREB1 homolog) that regulates the unfolded protein response		0.83	911	931	921	+	1	0.87	0.04	aaaaaaaaacaGCGTctctag
PSHEAT	Heat shock factors	PSHSFC1.01	Heat shock transcription factor C1		0.86	918	940	929	+	1	0.876	0.016	aaacggcttcTAGaaatcgatat
PSHEAT	Heat shock factors	PSHSFC1.01	Heat shock transcription factor C1		0.86	919	941	930	-	1	0.877	0.017	aatatcgattcTAGaggcgctgt
ISCEBP	Drosophila C/EBP like bZIP transcription factors	ISLBLO.01	Slow border cells		0.91	938	950	944	+	1	0.941	0.031	tATTGacaaatct
FSBZIP	Fungal basic leucine zipper family	FSYAP1.02	Yeast activator protein of the basic leucine zipper (bZIP) family		0.93	937	957	947	-	0.967	0.974	0.044	atttgaaagatttGTCAatat
PSHEAT	Heat shock factors	PSHSFB3.01	Heat stress transcription factor B-3		0.83	942	964	953	+	0.801	0.832	0.002	tgacaaaTTTCAaaataaaaca
VSPERO	Peroxisome proliferator-activated receptor	VSPPARG.03	Peroxisome proliferator-activated receptor gamma, DR1 sites	Adipose Tissue Connective Tissue Digestive System Liver	0.83	954	976	965	+	1	0.898	0.068	aaataaaaacaaAAAGgtcagtt
VSRXRF	RXR heterodimer binding sites	VSRXRA.01	Retinoid X receptor alpha homodimer, DR1 sites	Bone and Bones Brain Central Nervous System Connective Tissue Digestive System Ear Endocrine System Integumentary System Liver Nervous System Parathyroid Glands Pituitary Gland Skeleton Thyroid Gland	0.83	957	981	969	+	1	0.852	0.022	taaaaacaaaaaKGTTcagttctcaaa
VSRORA	v-ERB and RAR-related orphan receptor alpha	VSRORA.01	RAR-related orphan receptor alpha1	Blood Cells Brain Central Nervous System Endocrine System Immune System Leukocytes Lymphocytes Nervous System Pineal Gland	0.93	960	984	972	+	1	0.957	0.027	aaacaaaaaGTCagttctcaaaac
VSIRFF	Interferon regulatory factors	VSIRF1.01	Interferon regulatory factor 1	Antibody-Producing Cells Antigen-Presenting Cells Blood Cells Bone Marrow Cells Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.87	972	996	984	+	1	0.932	0.062	cagttctcaaaactGAAAactacaa
OdMT2													
ISCEBP	Drosophila C/EBP like bZIP transcription factors	ISLBLO.01	Slow border cells		0.91	28	40	34	+	1	0.92	0.01	aATTGtcaaagaa
FSBZIP	Fungal basic leucine zipper family	FSYAP1.02	Yeast activator protein of the basic leucine zipper (bZIP) family		0.93	57	77	67	-	1	1	0.07	gctggtttcttaGTAAattc
VSIRFF	Interferon regulatory factors	VSIRF2.02	Interferon regulatory factor 2	Antibody-Producing Cells Antigen-Presenting Cells Blood Cells Bone Marrow Cells Hematopoietic System Immune System Leukocytes Lymphocytes Monocytes Myeloid Cells Phagocytes	0.87	88	112	100	-	1	0.88	0.01	acaaaaacGAAAgtaaaaaacggga
VSIRFF	Interferon regulatory factors	VSIRF4.01	Interferon regulatory factor (IRF)-related protein (NF-EM5, PIP, LSIRF, ICSAT)	Antibody-Producing Cells Antigen-Presenting Cells Blood Cells Bone Marrow Cells Hematopoietic System Immune System Leukocytes Lymphocytes Monocytes Myeloid Cells Phagocytes	0.94	94	118	106	-	1	0.969	0.029	aaaaaaacaaaacCAAAgtaaaaa
VSIRFF	Interferon regulatory factors	VSIRF1.01	Interferon regulatory factor 1	Antibody-Producing Cells Antigen-Presenting Cells Blood Cells Bone Marrow Cells Hematopoietic System Immune System Leukocytes Lymphocytes Monocytes Myeloid Cells Phagocytes	0.87	110	134	122	-	1	0.887	0.017	aaagctggcaaagcGAAAaaaaaca
VSIRFF	Interferon regulatory factors	VSIRF7.01	Interferon regulatory factor 7 (IRF-7)	Antibody-Producing Cells Antigen-Presenting Cells Blood Cells Bone Marrow Cells Hematopoietic System Immune System Leukocytes Lymphocytes Monocytes Myeloid Cells Phagocytes	0.86	125	149	137	-	1	0.876	0.016	aatagcatCAAAgcaaagctggcca
VSAP1R	MAF and AP1 related factors	VSMAFK.01	V-maf musculoaponeurotic fibrosarcoma oncogene homolog K (half site)	Antibody-Producing Cells Blood Cells Blood Platelets Bone Marrow Cells Digestive System Ear Endocrine System Eye Hematopoietic System Immune System Islets of Langerhans Liver Pancreas	0.82	137	161	149	+	0.767	0.824	0.004	cttcatgcttttcAGCTTttttgc
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPE.02	CCAAT/enhancer binding protein (C/EBP), epsilon	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.97	152	166	159	+	1	0.987	0.017	gcttttTCAACac
PSHEAT	Heat shock factors	PSHSE.01	Heat shock element		0.81	171	193	182	-	1	0.822	0.012	ttcaaaagGaAGAGgccatct
PSHEAT	Heat shock factors	PSHSFB2A.02	Heat stress transcription factor B-2a (HSF6)		0.81	179	201	190	-	0.833	0.81	0	tgaagacgTTTCAaaaagtaaaga
VSIRFF	Interferon regulatory factors	VSIRF3.01	Interferon regulatory factor 3 (IRF-3)	Antibody-Producing Cells Antigen-Presenting Cells Blood Cells Bone Marrow Cells Hematopoietic System Immune System Leukocytes Lymphocytes Monocytes Myeloid Cells Phagocytes	0.85	200	224	212	-	1	0.934	0.084	gaaaattgaaatCAAAaattctg
PSAREF	Auxin response element	PSEBEP.01	Silencing element binding factor - transcriptional repressor		0.96	228	240	234	-	1	0.964	0.004	ggcTGTCacaaag
FSMREF	Metal regulatory element factors	FSCUSE.01	Copper-signaling element, AMT1/ACE1 recognition sequence		0.88	233	247	240	-	1	0.902	0.022	atatctcgCCTGtca
FSBZIP	Fungal basic leucine zipper family	FSCINS.01	bZIP transcriptional factor of the yAP-1 family that mediates pleiotropic drug resistance and salt tolerance		0.89	238	258	248	+	1	0.956	0.066	gccagattattattTAATctt
VSCREB	CAMP-responsive element binding proteins	VSE4BP4.01	E4BP4, bZIP domain, transcriptional repressor	Brain Central Nervous System Endocrine System Nervous System Pineal Gland	0.8	240	260	250	-	0.769	0.817	0.017	acaagattaaATAAtaatctg
VSCREB	CAMP-responsive element binding proteins	VSE4BP4.01	E4BP4, bZIP domain, transcriptional repressor	Brain Central Nervous System Endocrine System Nervous System Pineal Gland	0.8	241	261	251	+	0.758	0.865	0.065	agattattatTTAActttgtt
FSBZIP	Fungal basic leucine zipper family	FSCINS.01	bZIP transcriptional factor of the yAP-1 family that mediates pleiotropic drug resistance and salt tolerance		0.89	243	263	253	-	1	0.909	0.019	gaaacaagattaaaTAATaat
VSHEAT	Heat shock factors	VSHSF1.05	Heat shock factor 1	ubiquitous	0.92	261	285	273	+	0.844	0.941	0.021	ttcaagcttgaagttCTAGaaaaa
FSHSF	Yeast heat shock factors	FSHSF.01	Heat shock factor (yeast)		0.85	262	294	278	-	1	1	0.15	tgctgcaattTTCTagaacttcaaagcttga
PSHEAT	Heat shock factors	PSHSFC1.01	Heat shock transcription factor C1		0.86	267	289	278	+	1	0.995	0.135	cttgaagttcTAGaaaaattgc
VSHEAT	Heat shock factors	VSHSF2.03	Heat shock factor 2	ubiquitous	0.75	266	290	278	-	1	0.755	0.005	tgcaattttctAGAActtcaaagc
FSHSF	Yeast heat shock factors	FSHSF.01	Heat shock factor (yeast)		0.85	263	295	279	+	1	0.917	0.067	caagcttgaagTTCTagaaaattgcaagcag
PSHEAT	Heat shock factors	PSHSFC1.01	Heat shock transcription factor C1		0.86	268	290	279	-	1	0.991	0.131	tgcaattttCTAGaacttcaaa
VSHEAT	Heat shock factors	VSHSF2.03	Heat shock factor 2	ubiquitous	0.75	267	291	279	+	1	0.763	0.013	cttgaagttctAGAAaaattgcaa
VSHEAT	Heat shock factors	VSHSF1.05	Heat shock factor 1	ubiquitous	0.84	295	296	284	-	0.844	0.941	0.021	tctgctgcaattttCTAGaactt
VSRXRF	RXR heterodimer binding sites	VSRXR_RXR.01	Retinoid X receptor homodimer, DR1 sites	Bone and Bones Brain Central Nervous System Connective Tissue Digestive System Ear Endocrine System Integumentary System Liver Nervous System Parathyroid Glands Pituitary Gland Skeleton Thyroid Gland	0.78	296	320	308	-	0.889	0.786	0.006	cagcattcacaGTTCaaaaatgct
VSGREF	Glucocorticoid responsive and related elements	VSGRE.03	Glucocorticoid receptor, IR3 sites	Breast Endocrine System Leydig Cells Ovary Prostate Testis Urogenital System	0.88	355	373	364	+	1	0.907	0.027	tctctgcaaaTTGTTctga
FSXBP	S.cerevisiae, Xhol site-binding protein I	FSXBP1.01	S.cerevisae Xhol site-binding protein I, stressinduced expression		0.88	402	414	408	+	1	0.944	0.064	gcgcTCGAagcag
VSHEAT	Heat shock factors	VSHSF1.02	Heat shock factor 1	ubiquitous	0.75	406	430	418	-	1	0.768	0.018	ccogattctgCGAGaactgcttcga
VSIRFF	Interferon regulatory factors	VSISRC.01	Interferon-stimulated response element	Antibody-Producing Cells Antigen-Presenting Cells Blood Cells Bone Marrow Cells Hematopoietic System Immune System Leukocytes Lymphocytes Monocytes Myeloid Cells Phagocytes	0.81	446	470	458	-	1	0.864	0.054	aacctacgaaactCAAActtttaa
VSAP1R	MAF and AP1 related factors	VSBACH1.01	BTB/POZ-bZIP transcription factor BACH1 forms heterodimers with the small Maf protein family	Antibody-Producing Cells Blood Cells Blood Platelets Bone Marrow Cells Digestive System Ear Endocrine System Eye Hematopoietic System Immune System Islets of Langerhans Liver Pancreas	0.82	468	492	480	-	0.75	0.842	0.022	ttattttaTGATctaaaagcaaac
VSAP1R	MAF and AP1 related factors	VSBACH1.01	BTB/POZ-bZIP transcription factor BACH1 forms heterodimers with the small Maf protein family	Antibody-Producing Cells Blood Cells Blood Platelets Bone Marrow Cells Digestive System Ear Endocrine System Eye Hematopoietic System Immune System Islets of Langerhans Liver Pancreas	0.82	470	494	482	+	0.75	0.842	0.022	ttgcttaTGATctaaaaataacca
VSCEBP	Ccaat/Enhancer Binding Protein	VSCEBPE.02	CCAAT/enhancer binding protein (C/EBP), epsilon	Adipose Tissue Bone Marrow Cells Connective Tissue Digestive System Hematopoietic System Immune System Liver Myeloid Cells Phagocytes	0.97	558	572	565	+	0.96	0.975	0.005	tgcttttGGAAatc
VSNFAT	Nuclear factor of activated T-cells	VSNFAT5.02	Nuclear factor of activated T-cells 5	Blood Cells Cardiovascular System Cartilage Connective Tissue Heart Immune System Leukocytes Lymphocytes Myeloid Cells	0.87	562	580	571	+	1	0.925	0.055	tttcGAAatctgctaaat
VSPERO	Peroxisome proliferator-activated receptor	VSPPAR_RXR.01	PPAR/RXR heterodimers, DR1 sites