

Oligo GEMArray[®] DNA Microarray: Human Chemokines and Receptors

Catalog Number

OHS-022

Format:

HybTube (Standard protocol)

Description

The Oligo GEMArray[®] Human Chemokines and Receptors Microarray contains 112 genes that encode chemokines, their receptors, and related genes. The array contains members of the C-C and C-X-C motif subfamilies of small inducible cytokines and their receptors. Through a simple side-by-side hybridization experiment you can determine differential gene expression between your samples with this array.

Functional Gene Groupings

Chemokine (C-C motif) Ligands: CCL1, CCL11, CCL13, CCL15, CCL16, CCL17, CCL18, CCL19, CCL2, CCL20, CCL21, CCL23, CCL24, CCL25, CCL26, CCL27, CCL28, CCL3, CCL4, CCL4L1, CCL5, CCL7, CCL8.

Chemokine (C-X-C motif) Ligands: CXCL1, CXCL10, CXCL11, CXCL12, CXCL13, CXCL14, CXCL16, CXCL2, CXCL3, CXCL5, CXCL6, CXCL9.

Chemokine (C-C motif) Receptors: CCR1, CCR2, CCR3, CCR4, CCR5, CCR6, CCR7, CCR8, CCR9, CCRL1, CCRL2.

Chemokine (C-X-C motif) Receptors: BLR1, CXCR3, CXCR4, CXCR6, CYFIP2.

Other Chemokines and Related Genes: AGTRL1, BDNF, C20orf175, C5, CCBP2, CKLF, CKLFSF1, CKLFSF2, CKLFSF3, CKLFSF4, CKLFSF5, CKLFSF6, CKLFSF7, CKLFSF8, CMKLR1, CMKOR1, CSF3, CX3CL1, CX3CR1, ECGF1, EPO, FY, GDF5, GPR109B, GPR2, GPR31, GPR77, GPR81, HIF1A, IL13, IL16, IL18, IL1A, IL4, IL8, IL8RA, IL8RB, LTB4R, MMP2, MMP7, MYD88, NFKB1, PF4, PPBP, PRL, RGS13, RGS3, SCYE1, SDF2, SLIT2, TCP10, TLR2, TLR4, TNF, TNFRSF1A, TNFSF14, TREM1, TREM2, VHL, XCL1, XCR1.

Storage Conditions

Please check the kit components immediately after you receive this package. SuperArray is only responsible for missing items reported within two (2) business days of receipt.

GEMArray microarrays are shipped at ambient temperature enclosed in either a HybTube or ExpressPak Storage Box. They should be stored at -20°C upon receipt.

References

1. Sallusto F, Mackay CR, Lanzavecchia A (2000) The Role Of Chemokine Receptors In Primary, Effector, and Memory Immune Responses. *Annu. Rev. Immunol* **18**: 593-620.
2. Rossi D, Zlotnik A (2000) The Biology Of Chemokines And Their Receptors. *Annu. Rev. Immunol* **18**: 217-242.
3. Zlotnik A, Yoshie O (2000) Chemokines: A New Classification System And Their Role In Immunity. *Immunity* **12**: 121-127.
4. Krishna Vaddi, Margaret Keller, Robert C. Newton, editors. (1997) *The Chemokine Facts Book*. Academic Press.
5. James J Campbell and Eugene C Butcher (2000) Chemokines In Tissue-Specific And Microenvironment-Specific Lymphocyte Homing. *Current Opinion in Immunology* **12**: 336-341.

Product Specification Sheet

Oligo GEArray[®] Human Human Chemokines and Receptors Microarray

Array Layout:

RPS27A 1	AGTRL1 2	BDNF 3	BLR1 4	C20orf175 5	C5 6	CCBP2 7	CCL1 8
CCL11 9	CCL13 10	CCL15 11	CCL16 12	CCL17 13	CCL18 14	CCL19 15	CCL2 16
CCL20 17	CCL21 18	CCL23 19	CCL24 20	CCL25 21	CCL26 22	CCL27 23	CCL28 24
CCL3 25	CCL4 26	CCL4L1 27	CCL5 28	CCL7 29	CCL8 30	CCR1 31	CCR2 32
CCR3 33	CCR4 34	CCR5 35	CCR6 36	CCR7 37	CCR8 38	CCR9 39	CCRL1 40
CCRL2 41	CKLF 42	CKLFSF1 43	CKLFSF2 44	CKLFSF3 45	CKLFSF4 46	CKLFSF5 47	CKLFSF6 48
CKLFSF7 49	CKLFSF8 50	CMKLR1 51	CMKOR1 52	CSF3 53	CX3CL1 54	CX3CR1 55	CXCL1 56
CXCL10 57	CXCL11 58	CXCL12 59	CXCL13 60	CXCL14 61	CXCL16 62	CXCL2 63	CXCL3 64
CXCL5 65	CXCL6 66	CXCL9 67	CXCR3 68	CXCR4 69	CXCR6 70	CYFIP2 71	ECGF1 72
EPO 73	FY 74	GDF5 75	GPR109B 76	GPR2 77	GPR31 78	GPR77 79	GPR81 80
HIF1A 81	IL13 82	IL16 83	IL18 84	IL1A 85	IL4 86	IL8 87	IL8RA 88
IL8RB 89	LTB4R 90	MMP2 91	MMIP7 92	MYD88 93	NFKB1 94	PF4 95	PPBP 96
PRL 97	RGS13 98	RGS3 99	SCYE1 100	SDF2 101	SLIT2 102	TCP10 103	TLR2 104
TLR4 105	TNF 106	TNFRSF1A 107	TNFSF14 108	TREM1 109	TREM2 110	VHL 111	XCL1 112
XCR1 113	Blank 114	PUC18 115	Blank 116	Blank 117	AS1R2 118	AS1R1 119	AS1 120
GAPD 121	B2M 122	HSPCB 123	HSPCB 124	ACTB 125	ACTB 126	BAS2C 127	BAS2C 128

Gene Table

Position	UniGene	GenBank	Symbol	Description	Gene Name
1	Hs.311640	NM_002954	RPS27A	Ribosomal protein S27a	RPS27A
2	Hs.438311	NM_005161	AGTRL1	Angiotensin II receptor-like 1	AGTRL1
3	Hs.439027	NM_001709	BDNF	Brain-derived neurotrophic factor	BDNF
4	Hs.113916	NM_001716	BLR1	Burkitt lymphoma receptor 1, GTP binding protein (chemokine (C-X-C motif) receptor 5)	BLR1
5	Hs.390104	NM_080829	C20orf175	Chromosome 20 open reading frame 175	C20orf175
6	Hs.1281	NM_001735	C5	Complement component 5	C5
7	Hs.529317	NM_001236	CCBP2	Chemokine binding protein 2	CCBP2
8	Hs.72918	NM_002981	CCL1	Chemokine (C-C motif) ligand 1	CCL1
9	Hs.54460	NM_002986	CCL11	Chemokine (C-C motif) ligand 11	CCL11
10	Hs.414629	NM_005408	CCL13	Chemokine (C-C motif) ligand 13	CCL13
11	Hs.272493	NM_004167	CCL15	Chemokine (C-C motif) ligand 15	CCL15
12	Hs.10458	NM_004590	CCL16	Chemokine (C-C motif) ligand 16	CCL16
13	Hs.66742	NM_002987	CCL17	Chemokine (C-C motif) ligand 17	CCL17
14	Hs.16530	NM_002988	CCL18	Chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated)	CCL18
15	Hs.50002	NM_006274	CCL19	Chemokine (C-C motif) ligand 19	CCL19
16	Hs.303649	NM_002982	CCL2	Chemokine (C-C motif) ligand 2	CCL2
17	Hs.75498	NM_004591	CCL20	Chemokine (C-C motif) ligand 20	CCL20
18	Hs.57907	NM_002989	CCL21	Chemokine (C-C motif) ligand 21	CCL21
19	Hs.169191	NM_005064	CCL23	Chemokine (C-C motif) ligand 23	CCL23
20	Hs.247838	NM_002991	CCL24	Chemokine (C-C motif) ligand 24	CCL24
21	Hs.310511	NM_005624	CCL25	Chemokine (C-C motif) ligand 25	CCL25
22	Hs.131342	NM_006072	CCL26	Chemokine (C-C motif) ligand 26	CCL26
23	Hs.528303	NM_006664	CCL27	Chemokine (C-C motif) ligand 27	CCL27
24	Hs.334633	NM_019846	CCL28	Chemokine (C-C motif) ligand 28	CCL28
25	Hs.73817	NM_002983	CCL3	Chemokine (C-C motif) ligand 3	CCL3
26	Hs.75703	NM_002984	CCL4	Chemokine (C-C motif) ligand 4	CCL4
27	Hs.512306	NM_207007	CCL4L1	Similar to cytokine (LOC388440). mRNA	CCL4L1
28	Hs.489044	NM_002995	CCL5	Chemokine (C-C motif) ligand 5	CCL5
29	Hs.251526	NM_006273	CCL7	Chemokine (C-C motif) ligand 7	CCL7
30	Hs.271387	NM_005623	CCL8	Chemokine (C-C motif) ligand 8	CCL8
31	Hs.301921	NM_001235	CCR1	Chemokine (C-C motif) receptor 1	CCR1
32	Hs.511794	NM_000648	CCR2	Chemokine (C-C motif) receptor 2	CCR2
33	Hs.506190	NM_001837	CCR3	Chemokine (C-C motif) receptor 3	CCR3
34	Hs.506129	NM_005508	CCR4	Chemokine (C-C motif) receptor 4	CCR4
35	Hs.54443	NM_000579	CCR5	Chemokine (C-C motif) receptor 5	CCR5
36	Hs.46468	NM_004367	CCR6	Chemokine (C-C motif) receptor 6	CCR6
37	Hs.1652	NM_001838	CCR7	Chemokine (C-C motif) receptor 7	CCR7
38	Hs.113222	NM_005201	CCR8	Chemokine (C-C motif) receptor 8	CCR8
39	Hs.225946	NM_006641	CCR9	Chemokine (C-C motif) receptor 9	CCR9
40	Hs.310512	NM_016557	CCRL1	Chemokine (C-C motif) receptor-like 1	CCRL1
41	Hs.512820	NM_003965	CCRL2	Chemokine (C-C motif) receptor-like 2	CCRL2
42	Hs.15159	NM_181641	CKLF	Chemokine-like factor	CKLF
43	Hs.343717	NM_181269	CKLFSF1	Chemokine-like factor super family 1	CKLFSF1
44	Hs.195685	NM_144673	CKLFSF2	Chemokine-like factor super family 2	CKLFSF2
45	Hs.298198	NM_144601	CKLFSF3	Chemokine-like factor super family 3	CKLFSF3
46	Hs.325825	NM_178818	CKLFSF4	Chemokine-like factor super family 4	CKLFSF4
47	Hs.99272	NM_138460	CKLFSF5	Chemokine-like factor super family 5	CKLFSF5
48	Hs.380627	NM_017801	CKLFSF6	Chemokine-like factor super family 6	CKLFSF6
49	Hs.440494	NM_138410	CKLFSF7	Chemokine-like factor super family 7	CKLFSF7
50	Hs.154986	NM_178868	CKLFSF8	Chemokine-like factor super family 8	CKLFSF8
51	Hs.158553	NM_004072	CMKLR1	CHEMOKINE-LIKE RECEPTOR 1	CMKLR1
52	Hs.231853	NM_020311	CMKOR1	Chemokine orphan receptor 1	CMKOR1
53	Hs.2233	NM_000759	CSF3	Colony stimulating factor 3 (granulocyte)	CSF3
54	Hs.80420	NM_002996	CX3CL1	Chemokine (C-X3-C motif) ligand 1	CX3CL1

Product Specification Sheet

Position	UniGene	GenBank	Symbol	Description	Gene Name
55	Hs.78813	NM_001337	CX3CR1	Chemokine (C-X3-C motif) receptor 1	CX3CR1
56	Hs.789	NM_001511	CXCL1	Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)	GROa/MGSA
57	Hs.413924	NM_001565	CXCL10	Chemokine (C-X-C motif) ligand 10	SCYB10/IP-10
58	Hs.103982	NM_005408	CXCL11	Chemokine (C-X-C motif) ligand 11	L-TACI/IP9/SCYB11
59	Hs.436042	NM_006609	CXCL12	Chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)	SDF1
60	Hs.100431	NM_006419	CXCL13	Chemokine (C-X-C motif) ligand 13 (B-cell chemoattractant)	SCYB13
61	Hs.24395	NM_004887	CXCL14	Chemokine (C-X-C motif) ligand 14	SCYB14
62	Hs.82407	NM_022059	CXCL16	Chemokine (C-X-C motif) ligand 16	CXCL16
63	Hs.75765	NM_002089	CXCL2	Chemokine (C-X-C motif) ligand 2	MIP-2a/GROb
64	Hs.89690	NM_002090	CXCL3	Chemokine (C-X-C motif) ligand 3	GRO3
65	Hs.89714	NM_002994	CXCL5	Chemokine (C-X-C motif) ligand 5	ENA-78/SCYB5
66	Hs.164021	NM_002993	CXCL6	Chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)	GCP-2/SCYB6
67	Hs.77367	NM_002416	CXCL9	Chemokine (C-X-C motif) ligand 9	MIG
68	Hs.198252	NM_001504	CXCR3	Chemokine (C-X-C motif) receptor 3	GPR9
69	Hs.421986	NM_003467	CXCR4	Chemokine (C-X-C motif) receptor 4	CXCR4
70	Hs.34526	NM_006564	CXCR6	Chemokine (C-X-C motif) receptor 6	STRL33/TYMSTR
71	Hs.211201	NM_014376	CYFIP2	Cytoplasmic FMR1 interacting protein 2	CYFIP2
72	Hs.435067	NM_001953	ECGF1	Endothelial cell growth factor 1 (platelet-derived)	PDECGF
73	Hs.2303	NM_000799	EPO	Erythropoietin	EPO
74	Hs.183	NM_002036	FY	Duffy blood group	CCBP1
75	Hs.1573	NM_000557	GDF5	Growth differentiation factor 5 (cartilage-derived morphogenetic protein-1)	CDMP-1
76	Hs.458425	NM_006018	GPR109B	G protein-coupled receptor 109B	HMT4
77	Hs.278446	NM_016602	GPR2	G protein-coupled receptor 2	CCR10
78	Hs.248124	NM_005299	GPR31	G protein-coupled receptor 31	GPR31
79	Hs.2161	NM_001736	GPR77	G protein-coupled receptor 77	GSR1
80	Hs.326712	NM_032554	GPR81	G protein-coupled receptor 81	FKSG80
81	Hs.412416	NM_001530	HIF1A	Hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	HIF1A
82	Hs.845	NM_002188	IL13	Interleukin 13	IL-13
83	Hs.170359	NM_004513	IL16	Interleukin 16 (lymphocyte chemoattractant factor)	IL-16
84	Hs.83077	NM_001562	IL18	Interleukin 18 (interferon-gamma-inducing factor)	IL-18
85	Hs.1722	NM_000575	IL1A	Interleukin 1, alpha	IL-1a
86	Hs.73917	NM_000589	IL4	Interleukin 4	IL-4
87	Hs.624	NM_000584	IL8	Interleukin 8	IL-8
88	Hs.194778	NM_000634	IL8RA	Interleukin 8 receptor, alpha	CXCR1
89	Hs.846	NM_001557	IL8RB	Interleukin 8 receptor, beta	CXCR2
90	Hs.445013	NM_181657	LTB4R	Leukotriene B4 receptor	GPR16
91	Hs.367877	NM_004530	MMP2	Matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)	MMP-2
92	Hs.2256	NM_002423	MMP7	Matrix metalloproteinase 7 (matrilysin, uterine)	MMP-7
93	Hs.82116	NM_002468	MYD88	Myeloid differentiation primary response gene (88)	MvD88
94	Hs.160557	NM_003988	NFKB1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (p105)	KBF1
95	Hs.81564	NM_002619	PF4	Platelet factor 4 (chemokine (C-X-C motif) ligand 4)	CXCL4/SCYB4
96	Hs.2164	NM_002704	PPBP	Pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)	NAP2/CXCL7
97	Hs.1905	NM_000948	PRL	Prolactin	PRL
98	Hs.17165	NM_002927	RGS13	Regulator of G-protein signalling 13	RGS13
99	Hs.82294	NM_144488	RGS3	Regulator of G-protein signalling 3	RGS3
100	Hs.105656	NM_004757	SCYE1	Small inducible cytokine subfamily E, member 1 (endothelial monocyte-activating)	SCYE1
101	Hs.118684	NM_006923	SDF2	Stromal cell-derived factor 2	SDF2
102	Hs.29802	NM_004787	SLIT2	Slit homolog 2 (Drosophila)	Slit2
103	Hs.351	NM_004610	TCP10	T-complex 10 (mouse)	TCP10
104	Hs.519033	NM_003264	TLR2	Toll-like receptor 2	TLR2
105	Hs.174312	NM_003266	TLR4	Toll-like receptor 4	TLR4
106	Hs.241570	NM_000594	TNF	Tumor necrosis factor (TNF superfamily, member 2)	TNFA
107	Hs.159	NM_001065	TNFRSF1A	Tumor necrosis factor receptor superfamily, member 1A	TNFR1
108	Hs.129708	NM_003807	TNFSF14	Tumor necrosis factor (ligand) superfamily, member 14	HVEM-L
109	Hs.283022	NM_018643	TREM1	Triggering receptor expressed on myeloid cells 1	TREM1
110	Hs.435295	NM_018965	TREM2	Triggering receptor expressed on myeloid cells 2	TREM2
111	Hs.421597	NM_000551	VHL	Von Hippel-Lindau syndrome	VHL
112	Hs.174228	NM_002995	XCL1	Chemokine (C motif) ligand 1	SCYC1
113	Hs.248116	NM_005283	XCR1	Chemokine (C motif) receptor 1	CXCR1
114	Blank	Blank	Blank	Blank	0
115	N/A	L08752	PUC18	PUC18 Plasmid DNA	hUC18
116	Blank	Blank	Blank	Blank	0
117	Blank	Blank	Blank	Blank	0
118	N/A	N/A	AS1R2	Artificial Sequence 1 Related 2 (80% identity)(48/60)	N/A
119	N/A	N/A	AS1R1	Artificial Sequence 1 Related 1 (90% identity)(56/60)	N/A
120	N/A	N/A	AS1	Artificial Sequence 1	N/A
121	Hs.169476	NM_002046	GAPD	Glyceraldehyde-3-phosphate dehydrogenase	GAPDH
122	Hs.48516	NM_004048	B2M	Beta-2-microglobulin	B2M
123	Hs.74335	NM_007355	HSPCB	Heat shock 90kDa protein 1, beta	HSP90 b
124	Hs.74335	NM_007355	HSPCB	Heat shock 90kDa protein 1, beta	HSP90 b
125	Hs.426930	NM_001101	ACTB	Actin, beta	b-Actin
126	Hs.426930	NM_001101	ACTB	Actin, beta	b-Actin
127	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary sequence	N/A
128	N/A	N/A	BAS2C	Biotinylated Artificial Sequence 2 Complementary sequence	N/A