# Gene presence per taxon in Euryarchaeota (phylum) (1/13)

	4.0	0000		
0 0 6	47	55 57		To the state of th
				Acidiplasma Acidiplasma aeolicum
				Acidiplasma cupricumulans Acidiplasma su. MBA-1
1 0 0 0	0 1			Aciduliprofundum boonei
0000	0 1			Aciduliprofundum boonei T469 Aciduliprofundum sp.
1 0 0 0	0 1			Actualprofundum sp. MAR08–339 Actualprofundum sp. MAR08–339 ANME-1 cluster archaeon ex4572_4  MAME-2 cluster archaeon ANME-2 cluster archaeon HR1 Archaeolebaler archaeon
	1 0	1 0		ANME—2 cluster archaeon
1 0 0 0	0 0			ANME-2 cluster archaeon HR1  Archaeoglobales archaeon
1 0 0 0	1 1			Archaeoglobales archaeon ex4484_92
1 0 0 0	1 1	1 0		Archaeoglobi archaeon Archaeoglobus fuliqidus
1000	1 1	1 0		Archaeoglobus fulgidus DSM 4304 Archaeoglobus fulgidus DSM 8774
1 0 0 0	0 1	0 0		Archaeoglobus profundus
1 0 0 0	1 1			Archaeoglobus sp.
1 0 0 0	1 1			Archaeoglobus sultaticallidus
	1 1			
0000	1 1			Archaeoglobus veneficus SNP6 candidate division MSBL1 archaeon SCGC-AAA259A05
	1 0			candidate division MSBL1 archaeon SCGC-AAA259B11 candidate division MSBL1 archaeon SCGC-AAA259D14
				candidate division MSBL1 archaeon SCGC-AAAZ59D18 candidate division MSBL1 archaeon SCGC-AAAZ59D18
	1 0			candidate division MSBL1 archaeon SCGC—AAA259E17 candidate division MSBL1 archaeon SCGC—AAA259E19
	1 0			candidate division MSBL1 archaeon SCGC–AAA259E22 candidate division MSBL1 archaeon SCGC–AAA259I07
	1 1			candidate division MSBL1 archaeon SCGC-AAA259107 candidate division MSBL1 archaeon SCGC-AAA259109
	1 0			candidate division MSBL1 archaeon SCGC-AAA259l14 candidate division MSBL1 archaeon SCGC-AAA259J03
	1 1			candidate division MSBL1 archaeon SCGC-AAA259M10  candidate division MSBL1 archaeon SCGC-AAA259M10  candidate division MSBL1 archaeon SCGC-AAA259005
	1 0			Archaeoglobus veneficus SNP6 candidate division MSBL1 archaeon SCGC-AAA259A05 candidate division MSBL1 archaeon SCGC-AAA259B11 candidate division MSBL1 archaeon SCGC-AAA259B11 candidate division MSBL1 archaeon SCGC-AAA259B14 candidate division MSBL1 archaeon SCGC-AAA259B17 candidate division MSBL1 archaeon SCGC-AAA259B17 candidate division MSBL1 archaeon SCGC-AAA259B17 candidate division MSBL1 archaeon SCGC-AAA259B19 candidate division MSBL1 archaeon SCGC-AAA259B14 candidate division MSBL1 archaeon SCGC-AAA259B14 candidate division MSBL1 archaeon SCGC-AAA259B103 candidate division MSBL1 archaeon SCGC-AAA259B104 candidate division MSBL1 archaeon SCGC-AAA259B05 candidate division MSBL1 archaeon SCGC-AAA2661019 candidate division MSBL1 archaeon SCGC-AAA2661019 candidate division MSBL1 archaeon SCGC-AAA266119 candidate division MSBL1 archaeon SCGC-AAA266119 candidate division MSBL1 archaeon SCGC-AAA266119 candidate division MSBL1 archaeon SCGC-AAA2661019 candidate division MSBL1 archaeon SCGC-AAA382A03 candidate division MSBL1 archaeon SCGC-AAA382N08 candidate division MSBL1 archaeon SCGC-AAA382N08 candidate division MSBL1 archaeon SCGC-AAA388X002 candidate division MSBL1 archaeon SCGC-AA
	0 0	1 0		candidate division MSBL1 archaeon SCGC-AAA261D19 candidate division MSBL1 archaeon SCGC-AAA261F17
		1 0		candidate division MSBL1 archaeon SCGC_AAA261F19
	1 0			candidate division MSBL1 archaeon SCGC-AAA261GUb candidate division MSBL1 archaeon SCGC-AAA261O19
		0 0		candidate division MSBL1 archaeon SCGC_AAA382A03
	1 0	0 0		candidate division MSBL1 archaeon SCGC-AAA382A20
	1 0			candidate division MSBL1 archaeon SCGC-AAA382C18 candidate division MSBL1 archaeon SCGC-AAA382F02
	1 0			candidate division MSBL1 archaeon SCGC-AAA382M17 candidate division MSBL1 archaeon SCGC-AAA382N08
				candidate division MSBL1 archaeon SCGC-AAA385D11
				candidate division MSBL1 archaeon SCGC-AAA385M02 candidate division MSBL1 archaeon SCGC-AAA835F18
	0 0			candidate division MSBL1 archaeon SCGC-AAA833K04
	1 0			Candidatus Argoarchaeum ethanivorans Candidatus Halobonum tyrrellensis
1 0 0 0	1 0			Candidatus Halobonum tyrrellensis G22
	0 0	0 0		Candidatus Methanofastidiosum methylthiophilus
	1 0	1 0		Candidatus Methanohlaarchaeum thermophilum Candidatus Methanolioarum thermophilum
	1 1			Candidatus Methanolliviera pp. GoM. appeal
	1 1			Candidatus Methanoliparum thermophilum Candidatus Methanoliparum thermophilum Candidatus Methanoliliviera hydrocarbonicum Candidatus Methanoliliviera sp. GoM_asphalt Candidatus Methanoliliviera sp. GoM_oil Candidatus Methanoliliviera sp. GoM_oil Candidatus Methanoliliviera scale
				Candidatus Methanollivieraceae Candidatus Methanomassiliicoccus intestinalis
				Cardidatus Methanomassilicoccus intestinalis Issoire–Mx1 Cardidatus Methanomassilicoccus intestinalis Issoire–Mx1 Cardidatus Methanomethylophilus alvus Mx1201 Cardidatus Methanomethylophilus alvus Mx1201 Cardidatus Methanomethylophilus p. 1R26 Cardidatus Methanoperedenaceae archaeon
				Candidatus Methanomethylophilus alvus Mx1201
	0 0			Candidatus Methanomethylophilus sp. 1R26 Candidatus Methanoperedenaceae archaeon
	1 0			Candidatus Methanoperedenaceae archaeon Candidatus Methanoperedenaceae archaeon Candidatus Methanoperedens Candidatus Methanoperedens Candidatus Methanoperedens nitroreducens Candidatus Methanoperedens p. BL21 Candidatus Methanoperedens p. BL22 Candidatus Manoperedens p. BL23 Candidatus Nanoperedens p. BL24 Candidatus Nanoperedens p. J07AB43 Candidatus Nanoperedens p. J07AB43
	1 0	1 0		Candidatus Methanoperedens  11 11 Candidatus Methanoperedens nitroreducens
	1 0			Candidatus Methanoperedens sp.
	1 0			Candidatus Methanoperedens sp. BLZ2
	0 0			Candidatus Methanoplasma termitum Candidatus Nanohaloarchaeota archaeon
				Candidatus Nanosalina sp. J07AB43 Candidatus Nanosalinarum sp. J07AB56
	1 1	1 0	0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0	II de la
	1 1			Candidatus Syntrophoarchaeum butanivorans Candidatus Syntrophoarchaeum caldarius
	0 1	1 0		Maria de la
	0 0			Candidatus Syntrophoarchaeum sp. WYZ-LMO15 Candidatus Thalassarchaeum betae
				Cuniculiplasma divulgatum Cuniculiplasma sp. C_DKE
1000	1 1	1 1		1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	1 0			Euryarchaeota archaeon 13_1_20CM_2_64_92 Euryarchaeota archaeon 13_1_20CM_4_64_14
	1 0			Eurvarchaeota archaeon 55, 53
	0 0			El privarchaeota archaeon ADurb.Bin023
	0 0			Euryarchaeota archaeon ADurb. Bin165 Euryarchaeota archaeon ADurb. Bin190
	1 0			Billion B
	Iσ	Dω	×2⊢⊢00005<<00	© DODDIIZAWの以てストプロマスコート でくのの の ストリミ
MOZ_SAS KAT11 Hat1_N GNAT_acetyltr_	SIR2 Hist_deacetyl	SET DOT1	ZHCAWS ZHCAWS ZHCAWS ZHUDOR TIDDOR THDOR HOWP WRG WRG WRG MBT Chromo Bromodomain BIR ADD_DNWT3 ADD_ATRX CUDINAMIC SWIRM	WD40 zt-CXXC zt-C2H2 kai-C2H2
"Z _0	dea	_	LEATS LEATS LEATS TD	TO BE SEED OF BEACH O

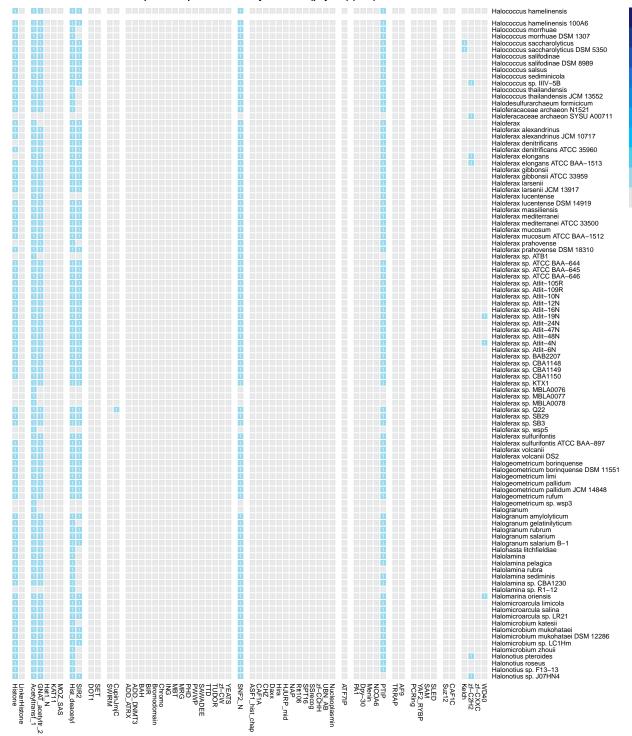
# Gene presence per taxon in Euryarchaeota (phylum) (2/13)

				G	ene presence per taxon in	Euryarchaeota (phylur	n) (2/13)					
1 0	1 0 0 0 0	1 0			100000000000000000000000000000000000000		0 0 0 0 0 1	0 0			0 0 0 1	Euryarchaeota archaeon CG_4_9_14_3_um_filter_38_12
1 0	1 0 0 0 0	1 0			00000000000000000		0 0 0 0 0 1	0 0			0 0 0 1	Euryarchaeota archaeon CG01_land_8_20_14_3_00_38_12
	1 0 0 0 0	0 1										Euryarchaeota archaeon ex4484_162 Euryarchaeota archaeon ex4484_178 Euryarchaeota archaeon HGW-Euryarchaeota-1
1 0	1 0 0 0 0				$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							Euryarchaeota archaeon HGW-Euryarchaeota-1
	1 0 0 0 0		1 0				0 0 0 0 0 1	0 0			1 0 0 0	Euryarchaeota archaeon RBG_13_57_23
	1 0 0 0 0						0 0 0 0 0 1	0 0				Euryarchaeota archaeon RBG_13_61_15 Euryarchaeota archaeon RBG 16 62 10
	1 0 0 0 0	1 0										Euryarchaeota archaeon RBG_16_67_27
	1 0 0 0 0	1 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 1						0 0 0 0	Euryarchaeota archaeon RBG_16_68_13
	1 0 0 0 0	1 1					0 0 0 0 0 1				1 0 0 0	Euryarchaeota archaeon RBG_19FT_COMBO_56_21 Euryarchaeota archaeon RBG_19FT_COMBO_69_17
0 0	1 0 0 0 0	1 1									0 0 0 1	Euryarchaeota archaeon SG8-5
	1 0 0 0 0	0 1					0 0 0 0 0 1	0 0				Euryarchaeota archaeon TMED103
	100000	0 1		0 0			0 0 0 0 0 1	0 0			1 0 0 0	Euryarchaeota archaeon TMED117 Euryarchaeota archaeon TMED129
	10000	0 0		0 0			0 0 0 0 0 1	0 0			0 0 0 1	Euryarchaeota archaeon TMED132
	1 0 0 0 0	1 1					0 0 0 0 0 1	0 0			0 0 0 1	Euryarchaeota archaeon TMED141 Euryarchaeota archaeon TMED164
	1 0 0 0 0	1 0					0 0 0 0 0 1				0 0 0 0	Euryarchaeota archaeon TMED173
	1 0 0 0 0	0 0					0 0 0 0 0 1	0 0			0 0 0 0	Euryarchaeota archaeon TMED215
	1 0 0 0 0						0 0 0 0 0 1	0 0			0 0 0 1	Euryarchaeota archaeon TMED248 Euryarchaeota archaeon TMED252
	1 0 0 0 0	0 1					0 0 0 0 0 1	0 0			0 0 0 0	Euryarchaeota archaeon ex4484_178 Euryarchaeota archaeon (HGW-Euryarchaeota-1 Euryarchaeota archaeon (HGW-Euryarchaeota-1 Euryarchaeota archaeon (HGW-Euryarchaeota-1 Euryarchaeota archaeon (HGG-13_31_8 Euryarchaeota archaeon (HGG-13_57_23 Euryarchaeota archaeon (HGG-13_61_15 Euryarchaeota archaeon (HGG-16_67_27 Euryarchaeota archaeon (HGG-16_67_27 Euryarchaeota archaeon (HGG-16_68_12 Euryarchaeota archaeon (HGG-16_68_12 Euryarchaeota archaeon (HGG-19FT_COMBO_56_21 Euryarchaeota archaeon (HGG-19FT_COMBO_56_21 Euryarchaeota archaeon (HGG-19FT_COMBO_56_21 Euryarchaeota archaeon (HGG-19FT_COMBO_69_17 Euryarchaeota archaeon (HGG-19FT_COMBO_69_17 Euryarchaeota archaeon (HGG-19FT_COMBO_69_17 Euryarchaeota archaeon (HGC-197)
	1 0 0 0 0	0 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						0 0 0 1	Euryarchaeota archaeon TMED279 Euryarchaeota archaeon TMED85
	1 0 0 0 0	1 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 1	0 0			1 0 0 1	Euryarchaeota archaeon TMED97
1 0	1 1 0 0 0	1 1									0 0 0 0	Ferroglobus placidus
1 0	1 1 0 0 0	1 1										Ferroğlobus placidus DSM 10642 Ferroplasma
	1 0 0 0 0											Ferroplasma acidarmanus Ferroplasma acidarmanus fer1
	1 0 0 0 0				0 0 0 0 0 0 0 0 0 0 0 0 0 0 1							Ferroplasma acidiphilum
1 0	100000											Ferroplasma sp. Type II Geoglobus
1 0	1 1 0 0 0	1 1									1 0 0 0	Geoglobus acetivorans Geoglobus ahangari
1 0	1 0 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 1						0 0 0 1	Hadesarchaea archaeon
1 0	1 0 0 0 0	1 0									0 0 0 1	Hadesarchaea archaeon B3_Hades Hadesarchaea archaeon CG08 land 8 20 14 0 20 51 8
1 0	1 0 0 0 0	1 0										Hadesarchaea archaeon COB and 8_20_14_0_20_51_8 Hadesarchaea archaeon DG-33 Hadesarchaea archaeon DG-33-1 Hadesarchaea archaeon DG-33-1 Hadesarchaea archaeon YNP_154 Hadesarchaea archaeon YNP_N21
1 0	1 0 0 0 0	1 0	1 0									Hadesarchaea archaeon YNP_45
1 0	1 0 0 0 0	1 0	1 0									Hadesarchaea archaeon YNP_N21 Haladaptatus
1 0	1 1 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 1		0 0 0 0 0 1	0 0			1 0 0 0	Haladaptatus cibarius
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1					Haladaptatus litoreus Haladaptatus paucihalophilus
1 0	1 1 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1		0 0 0 0 0 1					Haladaptatus paucihalophilus DX253 Haladaptatus sp. R4 Haladaptatus sp. W1
1 0	1 1 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 1	0 0			1 0 0 0	Haladaptatus sp. K4 Haladaptatus sp. W1
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1	0 0				Halaikaliarchaeum desulturicum
1 0	1 1 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 1		0 0 0 0 0 1	0 0				Halalkalicoccus jeotgali Halalkalicoccus jeotgali B3
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1					Halalkalicoccus paucihalophilus Halalkalicoccus subterraneus
1 0	1 1 0 0 0	1 1			$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $		0 0 0 0 0 1					Halanaeroarchaeum sulfurireducens Halapricum salinum
1 0	1 0 0 0 0	1 1			0 0 0 0 0 0 0 0 1 0 0 0 0 0 1							Halapricum sp. CBA1109 Halarchaeum acidiphilum
1 0	1 0 0 0 0	1 1			$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $		0 0 0 0 0 1					Halarchaeum acidiphilum Halarchaeum acidiphilum MH1–52–1
1 0	1 1 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 1		0 0 0 0 0 1	0 0				Halarchaeum sp. CBA1220
1 0	1 1 0 0 0	1 1			0000000000000000000		0 0 0 0 0 1				0 1 0 0	Halegenticoccus soli Haloarchaeobius iranensis
1 0	1 1 0 0 0	1 0					0 0 0 0 0 1	0 0				haloarchaeon 3A1-DGR Haloarcula
	1 1 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 1		0 0 0 0 0 1	0 0			1 0 0 0	Haloarcula amylolytica
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1	0 0			1 0 0 0	Haloarcula amylolytica Haloarcula amylolytica JCM 13557 Haloarcula argentinensis
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1	0 0				Haloarcula argentinensis DSM 12282 Haloarcula californiae
1 0	1 1 0 0 0	1 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 1		0 0 0 0 0 1	0 0				Haloarcula californiae ATCC 33799
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1	0 0				Haloarcula hispanica Haloarcula hispanica ATCC 33960
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1	0 0				Haloarcula hispanica N601
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1	0 0				Haloarcula japonica Haloarcula japonica DSM 6131
0 0	1 1 0 0 0	1 1			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		0 0 0 0 0 1					Haloarcula marismortui Haloarcula marismortui ATCC 43049
1 0	1 1 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1		0 0 0 0 0 1	0 0				Haloarcula quadrata
0 0	1 1 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 1					Haloarcula rubripromontorii Haloarcula sinaiiensis
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1	0 0				Haloarcula sinaiiensis ATCC 33800 Haloarcula sp. Atlit–120R
1 0	1 1 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 1		0 0 0 0 0 1	0 0				Haloarcula sp. Atlit-47R
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1	0 0				Haloarcula sp. Atlit–7R Haloarcula sp. CBA1115
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1 0 0 0 0 0 1	0 0				Haloarcula sp. CBA1127 Haloarcula sp. CBA1129
1 0	1 1 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 1		0 0 0 0 0 1	0 0				Haloarcula sp. CBA1130
1 0	1 1 0 0 0	1 1					0 0 0 0 0 1					Haloarcula sp. CBA1131 Haloarcula sp. JP–L23
	1 1 0 0 0	0 1					0 0 0 0 0 1	0 0				Haloarcula sp. JP–Z28
1 0	1 1 0 0 0	1 1			00000000000000000		0 0 0 0 0 1	0.0				Haloarcula sp. K1 Haloarcula sp. MD-130
ES E	A GH KAC	SIR2	SET DOT1	SWC	AABBBCZKKAPPSTITK S	ACCDHURSS LBC	A PDANE	를 됐	PASE	Suz	중선선종	
LinkerHistone Histone	MOZ_SAS KAT11 Hat1_N GNAT_acetyltr_ Acetyltransf_1	[de	<b>4</b>	CupinJmjC SWIRM	SNF2_N YEATS YEATS TILDOR TILDOR TILDOR SAWADEE PHU PHU NARG MBT Chromo BIR BIR BIR BIR BIR BIR BIR BIR BIR BIR	Nucleoplasmin UBN AB ZI-COHH SS16009 SPT16 Rt106 NAPP HJURP_mid Hira Daxx CHZ CAF1A ASF1_hist_chap	NCOA6 Menin Dpy-30 PA1	AF9 TRRAP	SLED SAM YAF2_RYBP PCRing	CAF1C Suz12	WD40 zf-CXXC zf-C2H2 Kelch	
istor	AS acety	2 _deacetyl		ŋ;	TWN am in a	Jasr B J J Jist_o			YBF		2°C	
ē		_			ω 5	hap –			•			
	'N					-						

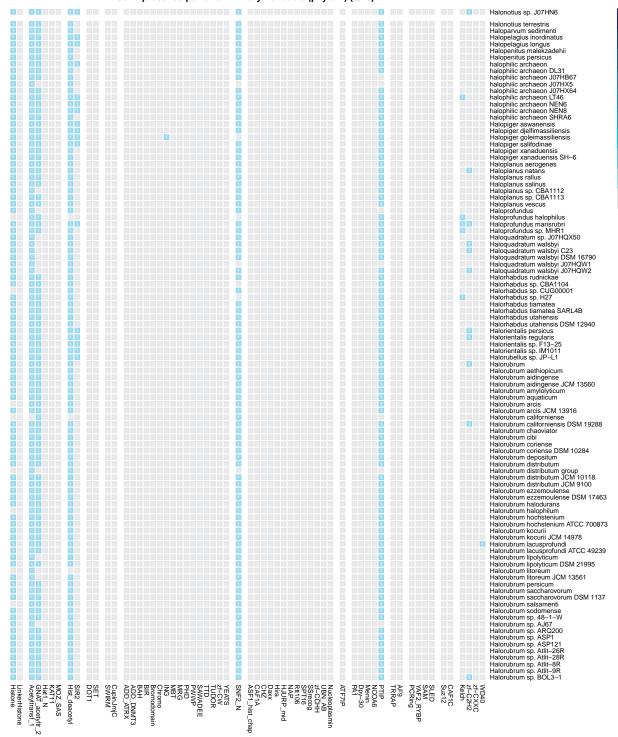
# Gene presence per taxon in Euryarchaeota (phylum) (3/13)

1 1 0 0 0 1 1 0 0 <u>0</u>	1 1				0 0 0 1	0 0 0			1 0 0						0 1					Haloarcula vallismortis Haloarcula vallismortis ATCC 297
0 0 0 0 0	0 0								1 0 0						0 0					Haloarculaceae Haloarculaceae archaeon HArcel
1 1 0 0 0	1 1					0 0 1			1 0 0						0 1					Halobacteriaceae archaeon HD8-
1 1 0 0 0 1 1 0 0 0	1 1																			Halobacteriaceae archaeon SHR3 Halobacteriaceae bacterium SHR
1 0 0 0 0	0 0																			<ul> <li>Halobacteriales</li> <li>Halobacteriales archaeon QH 1 6</li> </ul>
1 1 0 0 0	0 0														0 1					Halobacteriales archaeon QH_1_6 Halobacteriales archaeon QH_10 Halobacteriales archaeon QH_10
1 1 0 0 0	0 0								1 0 0						0 1					Halobacteriales archaeon QH_10 Halobacteriales archaeon QH_10 Halobacteriales archaeon QH_2_6
1 1 0 0 0									1 0 0						0 1				0 1 0 0	Halobacteriales archaeon QH_2_6
1 1 0 0 0 1 1 0 0 0	1 1																			Halobacteriales archaeon QH_2_6 Halobacteriales archaeon QH_3_6 Halobacteriales archaeon QH_6_6
1 1 0 0 0 1 1 0 0 0	1 1								1 0 0						0 1				0 0 0 0	Halobacteriales archaeon QH_6_6
1 0 0 0 0	0 0								1 0 0						0 1					Halobacteriales archaeon QH 6 6 Halobacteriales archaeon QH 6 6 Halobacteriales archaeon QH 7
1 1 0 0 0	1 1								1 0 0						0 1					Halobacteriales archaeon QH / 6
1 1 0 0 0 1 0 0 0 0	0 0								1 0 0											Halobacteriales archaeon QH_7_6 Halobacteriales archaeon QH_7_6
1 1 0 0 0	1 1								0 0 0						0 1					Halobacteriales archaeon QH_7_6 Halobacteriales archaeon QH_8_6
1 1 0 0 0	1 0								1 0 0						0 1					Halobacteriales archaeon QH_8_6 Halobacteriales archaeon QH_8_6
1 1 0 0 0	1 0														0 0					Halobacteriales archaeon QH 8 6
1 1 0 0 0 1 1 0 0 0	1 1								0 0 0						0 1					Halobacteriales archaeon QH_9_6 Halobacteriales archaeon QS_1_6 Halobacteriales archaeon QS_1_6
1 0 0 0 0 1 1 0 0 0	1 0								1 0 0						0 0					Halobacteriales archaeon QS_1_6 Halobacteriales archaeon QS 1 (
1 1 0 0 0	1 1								0 0 0						0 0					Halobacteriales archaeon QS_1_6
1 1 0 0 0	1 1								1 0 0						0 1				1 0 0 0	Halobacteriales archaeon QS_3_6
1 1 0 0 0 1 1 0 0 0	1 1								1 0 0						0 1					Hallobacteriales archaeon QS 1 = Hallobacteriales archaeon QS 3 = Hallobacteriales archaeon QS 3 = Hallobacteriales archaeon QS 4 =
1 1 0 0 0 1 1 0 0 0	1 0								1 0 0						0 1				0 0 0 0	Halobacteriales archaeon QS_4_6
1 1 0 0 0 1 1 0 0 0	1 1								0 0 0						0 1				1000	Halobacteriales archaeon QS_4_6
1 1 0 0 0	1 0								0 0 0						0 0					Halobacteriales archaeon QS_5_6 Halobacteriales archaeon QS_5_7 Halobacteriales archaeon QS_5_7 Halobacteriales archaeon QS_6_8
1 1 0 0 0									1 0 0						0 0					Halobacteriales archaeon QS_5_7
1 0 0 0 0	1 0								1 0 0						0 1					Halobacteriales archaeon QS_6_5  Halobacteriales archaeon QS_6_7
1 0 0 0 0 1 1 0 0 0	1 0														0 0					Halobacteriales archaeon QS_6_7 Halobacteriales archaeon QS_7_6 Halobacteriales archaeon QS_7_6 Halobacteriales archaeon QS_8_6
1 1 0 0 0	1 0								1 0 0						0 1				0 1 0 0	Halobacteriales archaeon QS_8_6 Halobacteriales archaeon QS_8_6
1 1 0 0 0	1 1								1 0 0						0 1					Halobacteriales archaeon QS_8_6
1 1 0 0 0	1 0								1 0 0						0 0					Halobacteriales archaeon QS_9_6 Halobacteriales archaeon QS_9_6
1 1 0 0 0 1 1 0 0 0	1 1														0 1					Halobacteriales archaeon QS_9_6 Halobacteriales archaeon QS_9_6 Halobacteriales archaeon QS_9_7
1 1 0 0 0	1 0														0 1					Halobacteriales archaeon QS_9_7 Halobacteriales archaeon SW 10
1 1 0 0 0	1 0								0 0 0						0 1					Halobacteriales archaeon GS 9, 4 Halobacteriales archaeon SW 10, Halobacteriales archaeon SW 12 Halobacteriales archaeon SW 12 Halobacteriales archaeon SW 12 Halobacteriales archaeon SW 51 Halobacteriales archaeon SW 51
1 1 0 0 0															0 0					Halobacteriales archaeon SW_12
1 0 0 0 0	1 0														0 1					Halobacteriales archaeon SW_12 Halobacteriales archaeon SW_5_i
1 1 0 0 0	1 1														0 0					naiobacteriales archaeori 3W 3
1 1 0 0 0	0 0								1 0 0						0 1					Halobacteriales archaeon SW 6 Halobacteriales archaeon SW 6 Halobacteriales archaeon SW 7 (
1 0 0 0 0	1 0								1 00						0 1					Halobacteriales archaeon SW 7 Halobacteriales archaeon SW 7 Halobacteriales archaeon SW 7 Halobacteriales archaeon SW 7
1 0 0 0 0 1 1 0 0 0	1 0								1 0 0						0 1					Halobacteriales archaeon SVV 8 (
1 1 0 0 0	1 1								1 0 0						0 1					Halobacteriales archaeon SW_8_6 Halobacteriales archaeon SW_8_6
1 1 0 0 0	1 0														0 1				1 0 0 0	Halobacteriales archaeon SW_9_6 Halobacteriales archaeon SW_9_6
1 1 0 0 0	1 0								1 0 0						0 1					Halobacterium hubeiense
1 1 0 0 0	1 0								1 0 0						0 0					Halobacterium jilantaiense Halobacterium salinarum
1 1 0 0 0 1 1 0 0 0	1 0								1 0 0											Halobacterium salinarum DSM 379 Halobacterium salinarum NRC-1
1 1 0 0 0 1 1 0 0 0	1 0								1 0 0						0 0					Halobacterium salinarum R1 Halobacterium sp. CBA1126
1 1 0 0 0	1 0								1 0 0						0 1					Halobacterium sp. CBA1126 Halobacterium sp. CBA1132 Halobacterium sp. DL1
1 1 0 0 0									1 0 0											Halobacterium sp. PCN9 Halobacterium sp. R2–5
1 1 0 0 0	1 0								1 0 0						0 1					Halobaculum gomorrense
1 1 0 0 0 1 1 0 0 0	1 0								1 0 0						0 1					Halobaculum sp. WSA2 Halobellus captivus
1 1 0 0 0 1 1 0 0 0	1 0														0 1					Halobellus clavatus Halobellus limi
1 1 0 0 0									1 0 0						0 1					Halobellus rufus Halobellus sp. Atlit-31R
1 1 0 0 0	1 0								1 0 0						0 1				0 1 0 0	Halobellus sp. Atlit–31R Halobiforma haloterrestris
1 1 0 0 0	1 1								1 0 0						0 1					Halobiforma lacisalsi
1 1 0 0 0	1 1														0 1				0 0 0 0	Halobiforma lacisalsi AJ5 Halobiforma nitratireducens
1 1 0 0 0 0 0 0 0 0																			0 1 0 0	Halobiforma nitratireducens JCM Halococcus
			ဖွဲ့ဂ	>>00	n m O =		DΩ-I		<b>1</b>			004⊂:		IJO≤		<b>0</b> 0	D<00			Halococcus agarilyticus
MOZ_SAS KAT11 Hat1_N GNAT_acetyl	SIR2 Hist_deacetyl	SET DOT1	CupinJmjC SWIRM	BAH ADD_DNMT3 ADD_ATRX	ag in G	교합국	§§†	YEATS zf-CW TUDOR	CAF1A ASF1_his	Hira Daxx	PATT	UBN_AB zf-CCHH SSrecog	ATF7IP	Menin Dpy-30 PA1	g <del>T</del>	AF9 TRRAP	SAM YAF2_RYBP PCRing	CAF1C Suz12	조수 CX	7
SA:	leac		Σğ	AND	no no		DE I	zi < ω	z his	į	ت ص	"g ∓æ	3 7	87	6	ס	ığ RY	۰۰۰	*XXC	•
14 0	Φ.		O	×S	2		m			=	<b>₹</b> -	2	2				w			

#### Gene presence per taxon in Euryarchaeota (phylum) (4/13)



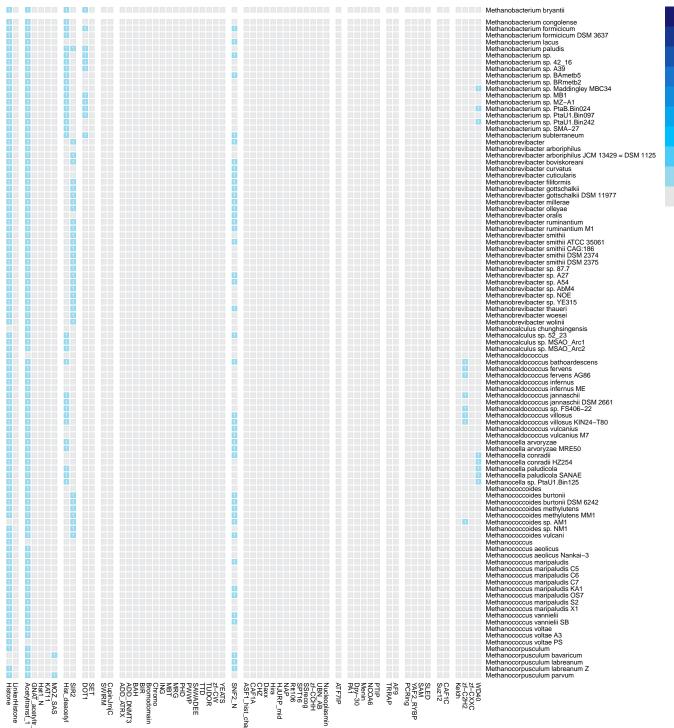
#### Gene presence per taxon in Euryarchaeota (phylum) (5/13)



#### Gene presence per taxon in Euryarchaeota (phylum) (6/13)



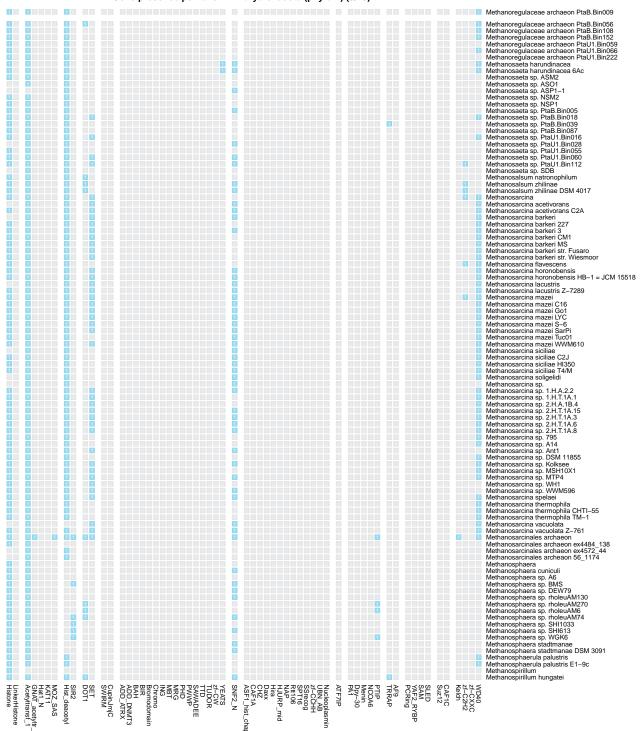
### Gene presence per taxon in Euryarchaeota (phylum) (7/13)



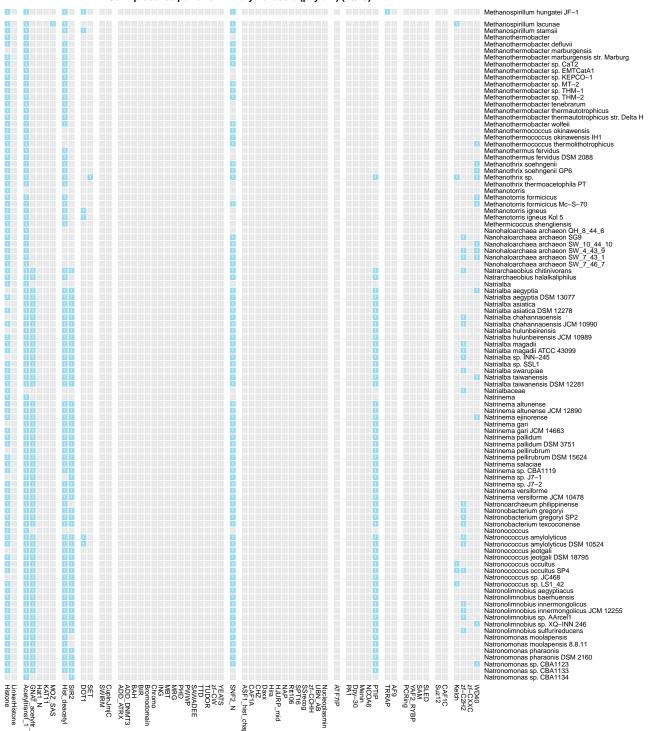
# Gene presence per taxon in Euryarchaeota (phylum) (8/13)

					sene presence per taxon in					
	1 0 0 0 1				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					Methanocorpusculum sp. GPch4
1 0	1 0 0 0 0									Methanocorpusculum sp. MCE Methanoculleus
1 0	1 0 0 0 0	1 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0			0 1 0 1	Methanoculleus bourgensis
1 0	1 0 0 0 0	1 0	0 1		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0 0 0 0 0 0 0 0 0 0 0				Methanoculleus chikugoensis
0 0	1 0 0 0 0	1 0	0 1							Methanoculleus horonobensis
1 0	1 0 0 0 0	1 0	0 1			0 0 0 0 0 0 0 0 0 0 0			0 0 0 1	Methanoculleus bourgensis Ms2 Methanoculleus chikugoensis Methanoculleus morionobensis Methanoculleus marisnigri Methanoculleus marisnigri Methanoculleus sediminis Methanoculleus sediminis Methanoculleus sediminis Methanoculleus p. CACI 088 Methanoculleus p. CACI 088 Methanoculleus sp. MH98A Methanoculleus sp. SDB Methanoculleus sp. SDB Methanoculleus sp. MB98A
1 0	1 0 0 0 0	1 0	0 1				0 0 0 0 0 0 0 0		0 1 0 1	Methanoculleus sediminis Methanoculleus se CAG:1088
1 0	1 0 0 0 0	1 0	0 0		000000001	0 0 0 0 0 0 0 0 0 0 0			0 0 0 1	Methanoculleus sp. MAB1
1 0	1 0 0 0 0	1 0	0 1						0 0 0 1	Methanoculleus sp. MH98A Methanoculleus sp. SDB
1 0	1 0 0 0 0	1 0	0 1						0 1 0 0	Methanoculleus taiwanensis
1 0	1 0 0 0 0	0 0	0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0			0 0 0 1	Methanoculleus thermophilus Methanofervidicoccus abyssi
1 0	1 0 0 0 0	0 0	0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 1	Methanofervidicoccus sp. A16 Methanofollis ethanolicus Methanofollis liminatans
1 0	1 0 0 0 0	1 0	0 1						0 0 0 1	Methanofollis liminatans
1 0	1 0 0 0 0	1 0	0 1		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 1	Methanofolis liminatars DSM 4140 Methanofolis sp. FWC-SCC2 methanogenic archaeon ISO4-H5 methanogenic archaeon ISO4-H5 methanogenic archaeon mixed culture ISO4-G1 Methanogenium cariaci Methanogenium cariaci Methanogenium sp. MK-MG Methanogenium sp. MK-MG Methanogenium sp. MK-MG
	1 0 0 0 0									methanogenic archaeon ISO4–H5
1 0	1 0 0 0 0									Methanogenium cariaci
1 0	1 0 0 0 0	1 0	1 0		$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $	$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $			0 0 0 0 1	Methanogenium sp. MK–MG Methanohalobium evestigatum
1 0	1 0 0 0 0	1 0	1 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0			0 1 0 0	Methanogenium sp. MK-MG Methanohalobium evestigatum Methanohalobium evestigatum Methanohalobium evestigatum Methanohalobium devestigatum Methanohalophilus Methanohalophilus buhalobius Methanohalophilus mahil Methanohalophilus mahil Methanohalophilus mahil Methanohalophilus portucalensis Methanohalophilus portucalensis Methanohalophilus sp. Methanohalophilus sp. Methanohalophilus sp. 2-GBenrich Methanohalophilus sp. DAL1 Methanohalophilus sp. SLHTYRO Methanohalophilus sp. SLHTYRO Methanohalophilus sp. SLHTYRO Methanohalophilus sp. WG1-DM Methanohalophilus sp. WG1-DM Methanohalophilus sp. WG1-DM Methanohalophilus sp. WG1-DM
1 0	1 0 0 0 0				0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0				Methanohalophilus euhalobius
1 0	1 0 0 0 0		1 0							Methanohalophilus halophilus Methanohalophilus mahii
1 0	1 0 0 0 0		1 0							Methanohalophilus mahii DSM 5219
1 0	1 0 0 0 0									Methanohalophilus portucalensis FDF-1
1 0	1 0 0 0 0									Methanohalophilus sp. 2_GRenrich
1 0	1 0 0 0 0				0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0				Methanohalophilus sp. DAL1
1 0	1 0 0 0 0				$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $	$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $				Methanohalophilus sp. RSK Methanohalophilus sp. SLHTYRO
1 0	1 0 0 0 0				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0				Methanohalophilus sp. T328–1
1 0	0 0 0 0 0					0 0 0 0 0 0 0 0 0 0 0				Methanolacinia Methanolacinia paynteri
	1 0 0 0 0								0 0 0 1	Methanolacinia paynteri Methanolacinia petrolearia
1 0	1 0 0 0 0	0 0	0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0				Methanolacinia petrolearia DSM 11571 Methanolinea sp. SDB
1 0	1 0 0 0 0	1 1	1 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					Methanolinea tarda
1 0	1 0 0 0 0	1 1	0 0							Methanolobus profundi Methanolobus psychrophilus R15
1 0	1 0 0 0 0	1 1	0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0				Methanolobus psychrotolerans
1 0	1 0 0 0 0	1 1			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0 0 0 0 0 0 0 0 0 0 0				Methanolobus psychrotolerans Methanolobus sp. SY-01 Methanolobus sp. T82-4
1 0	1 0 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0			0001	Methanolobus tindarius
1 0	1 0 0 0 0	1 1							0100	Methanolobus tindarius DSM 2278 Methanolobus vulcani
	1 0 0 0 0	0 0							0 0 0 0	Methanomassiliicoccaceae archaeon DOK Methanomassiliicoccales archaeon
	1 0 0 0 0	0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0			0000	Methanomassiliicoccales archaeon Mx=02
	1 0 0 0 0									Methanomassiliicoccales archaeon Mx–03 Methanomassiliicoccales archaeon Mx–06 Methanomassiliicoccales archaeon PtaB.Bin134
	1 0 0 0 0	1 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0				Methanomassiliicoccales archaeon PtaB.Bin134
	1 0 0 0 0				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0			0 0 0 0	Methanomassiliicoccales archaeon PtaB.Bin215 Methanomassiliicoccales archaeon PtaU1.Bin030 Methanomassiliicoccales archaeon PtaU1.Bin124
	1 0 0 0 0	1 0			$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $	0 0 0 0 0 0 0 0 0 0 0 0				Methanomassiliicoccales archaeon PtaU1.Bin124 Methanomassiliicoccales archaeon RumEn M1
	1 0 0 0 0				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0				Methanomassiliicoccales archaeon RumEn M1 Methanomassiliicoccales archaeon RumEn M2 Methanomassiliicoccus luminyensis
	1 0 0 0 0	1 0				0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0		1000	Methanomassiliicoccus iuminyensis Methanomassiliicoccus sp.
1 0	1 0 0 0 0	1 1	1 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 1	Methanomethylovorans hollandica
1 0	1 0 0 0 0	1 1			0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0			0001	Methanomethylovorans sp. PtaU1.Bin073
1 0	1 0 0 0 0	1 1	1 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0			0000	Methanomicrobiales archaeon 53 19
1 0	1 0 0 0 0	1 0	0 1						0 0 0 1	Methanomicrobiales archaeon HGW-Methanomicrobiales-1
1 0	1 0 0 0 0	1 0	0 1		0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0			0 0 0 1	Methanomicrobiales archaeon HGW–Methanomicrobiales–2
1 0	1 0 0 0 0	1 0	1 0		$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $	$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $				Methanomicrobiales archaeon HGW–Methanomicrobiales-4 Methanomicrobiales archaeon HGW–Methanomicrobiales-5
1 0	1 0 0 0 0	1 0	0 1						0 0 0 1	Methanomassiliicoccus lumiryensis Methanomassiliicoccus sp. Methanomethylovorans hollandica Methanomethylovorans hollandica DSM 15978 Methanomethylovorans sp. PtaU1. Bin073 Methanomethylovorans sp. PtaU1. Bin073 Methanomethylovorans sp. PtaU1. Bin093 Methanomicrobiales archaeon 53. 19 Methanomicrobiales archaeon HGW-Methanomicrobiales-1 Methanomicrobiales archaeon HGW-Methanomicrobiales-3 Methanomicrobiales archaeon HGW-Methanomicrobiales-3 Methanomicrobiales archaeon HGW-Methanomicrobiales-5 Methanomicrobiales archaeon HGW-Methanomicrobiales-6 Methanomicrobiales archaeon HGW-Methanomicrobiales-6 Methanomicrobiales archaeon HGW-Methanomicrobiales-6 Methanomicrobiales archaeon HGW-Methanomicrobiales-6
1 0	1 0 0 0 0	1 0	1 0						0 0 0 0	Methanomicrobium mobile Methanonatronarchaeia archaeon Methanonatronarchaeum thermophilum
1 0	1 0 0 0 0	1 0	1 0		$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $	$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $	0 0 0 0 0 0 0 0			Methanonatronarchaeum thermophilum Methanophagales archaeon
1 0	1 0 0 0 0	1 1	0 0		00000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0			0 1 0 0	Methanophagales archaeon ANME-1-THS Methanoplanus limicola
1 0	1 0 0 0 0	1 0	1 0		$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $					Methanoplanus limicola DSM 2279
1 0	1 1 0 0 0	1 1	1 0							Methanopyrus kandleri
1 0	1 1 0 0 0	1 1	1 0							Methanopyrus kandleri AV19 Methanopyrus sp. KOL6
1 0	1 1 0 0 0	1 1	1 0							Methanopyrus sp. SNP6 Methanoregula boonei
1 0	1 0 0 0 0	0 0	0 1						0 0 0 1	Methanoregula boonei 6A8
1 0	1 0 0 0 0	1 0	0 1		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1				0 0 0 1	Methanoregula formicica Methanoregula formicica SMSP
1 0	1 0 0 0 0	1 0	0 1						0 0 0 1	Methanoregula sp. Methanoregula sp. PtaB.Bin085
1 0	1 0 0 0 0	1 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0 1	Methanoregula sp. PtaU1.Bin006
1 0	1 0 0 0 0	1 0								Methanoregula sp. PtaU1.Bin051 Methanoregulaceae archaeon
	\$9.55	SIR2			AABBB45285458111111	SCCONTEXANSTEX				-
ston	et 4111	<u>₹</u> 22	SET DOT1	Ν̈́ρ	YEATS ZI-CW TUDOR TUD SAWADI PHD WWP PHD MRG MRG MBT NG Chromo Bromodc Bromodc BROM BBAH ADD_D		AF9 TRRAP PTIP NCOA6 Menin Dpy-30 PA1	Suz12 Suz12 SLED SAM YAF2_R PCRing	WD40 zf-CXXC zf-C2H2 Kelch	
LinkerHistone Histone	MOZ_SAS (AT11 fat1_N NAT_acet cetyltransi	deacety		CupinJmjC SWIRM	Y SATZ N Y SAWADEE PHUDOR TIDOR TO SAWADEE PHUD MRG MRG MRG MRG MRG Chromo Bromodomain Bromodomain Bromodomain	hist Jm	· 0 0 1	Suz12 SLED SAM YAF2_RYBP PCRing	, 4 <u>8</u>	
me	MOZ_SAS KAT11 Hat1_N GNAT_acetyltr_ Acetyltransf_1	₹		• • •	Y KATS ZI-CW ZI-CW TI-DDOR TI-DS SAWADEE PWWP PHD WRG MRG MRG MRG O'Chromo Bromodomain Bromodomain Bromodomain	Nucleoplasmin UBN AB zf-CCHH SSrecog SPT16 Rtt106 Rtt106 HJURP_mid HJURP_mid HJURP_MAX CHZ CAF1A ASFT_hist_chap		Ü		
						(1)				

### Gene presence per taxon in Euryarchaeota (phylum) (9/13)



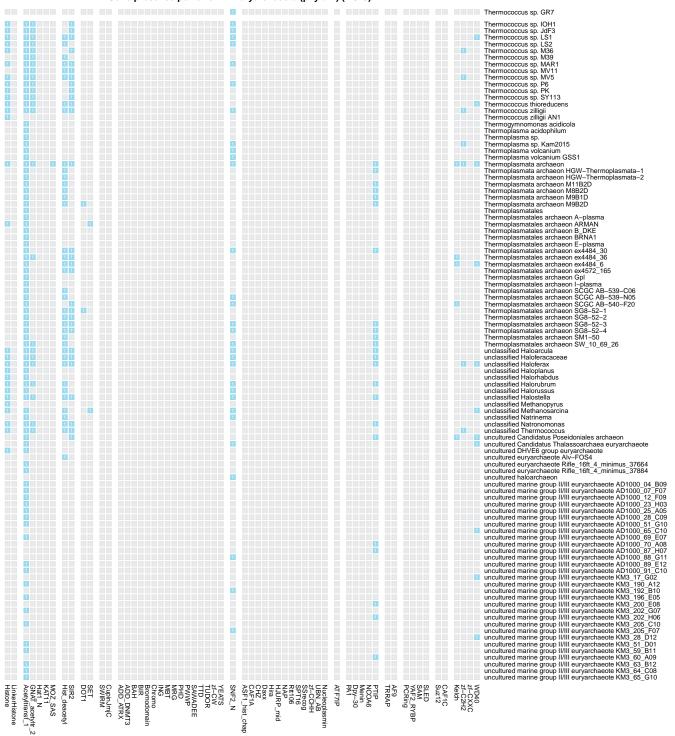
### Gene presence per taxon in Euryarchaeota (phylum) (10/13)



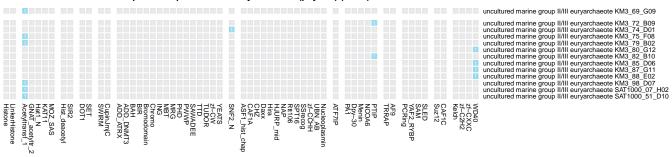
## Gene presence per taxon in Euryarchaeota (phylum) (11/13)

1 0 0 0																			Natronomonas sp. F12-1
1 1 0 0 0 1 1 0 0 0	1 1													$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					Natronomonas sp. F16–60 Natronomonas sp. F17–44 Natronomonas sp. F18–79 Natronomonas sp. F19–13
1 1 0 0 0	1 1													0 0 0 0 1					Natronomonas sp. F18-79
1 1 0 0 0	1 1							1						0 0 0 0 1					Natronomonas sp. F20–122 Natronorubrum aibiense
1 1 0 0 0	1 1							1						0 0 0 0 1					Natronorubrum aibiense Natronorubrum bangense
1 1 0 0 0	1 1							1						0 0 0 0 1				0 1 0 0	Natronorubrum bangense JCM 10635
1 1 0 0 0	1 1							1						0 0 0 0 1				0 1 0 0	Natronorubrum sediminis Natronorubrum sp. JWXQ-INN-674
1 1 0 0 0	1 1							1						0 0 0 0 1					Natronorubrum sulfidifaciens
1 1 0 0 0	1 1							1						0 0 0 0 1				0 1 0 0	Natronorubrum sulfidifaciens JCM 140 Natronorubrum texcoconense
1 1 0 0 0	1 1							1						0 0 0 0 1				0 1 0 0	Natronorubrum thiooxidans Natronorubrum tibetense
1 1 0 0 0	1 1							1						0 0 0 0 1					Natronorubrum tibetense GA33
1 1 0 0 0	0 1							1											Palaeococcus ferrophilus Palaeococcus pacificus
1 1 0 0 0 1 0 0 0 0	0 1																		Palaeococcus pacificus DY20341 Picrophilus
1 0 0 0 0																			Picrophilus oshimae Picrophilus oshimae DSM 9789
1 0 0 0 0 0																			Picrophilus oshimae DSM 9789 Picrophilus torridus
10000																			Picrophilus torridus Picrophilus torridus DSM 9790
1 1 0 0 0	1 1							1										0 1 0 0	Pyrococcus Pyrococcus abyssi
1 1 0 0 0	1 1							1										0 1 0 0	Pyrococcus abyssi GE5 Pyrococcus furiosus Pyrococcus furiosus COM1 Pyrococcus furiosus DSM 3638 Pyrococcus horikoshii
1 1 0 0 0	1 1							1										0 1 0 0	Pyrococcus furiosus COM1
1 1 0 0 0	1 1							1										0 1 0 0	Pyrococcus furiosus DSM 3638 Pyrococcus horikoshii
1 1 0 0 0	1 1							1										0 1 0 0	Pyrococcus horikoshii Pyrococcus horikoshii OT3 Pyrococcus kukulkanii
1 1 0 0 0 0 0 0 0 0	0 0																	0 1 0 0	PVrococcus sp.
1 1 0 0 0	1 1							1										0 1 0 0	Pyrococcus sp. NA2
1 1 0 0 0	1 1																	0 1 0 0	Pyrococcus yayanosii Pyrococcus yayanosii CH1 Salarchaeum sp. JOR-1 Salinarchaeum sp. Harcht-Bsk1 Salinigranum halophilum Salinigranum rubrum Salinigranum salinium Salinigranum salinum
1 1 0 0 0	1 1							1						0 0 0 0 1				0 1 0 0	Salarchaeum sp. JOR-1
1 1 0 0 0	1 0							1						$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				0 0 0 0	Salinarchaeum sp. Harcht-Bsk1
1 1 0 0 0	1 1							1										1 1 0 0	Salinigranum rubrum
1 1 0 0 0 1 1 0 0 0	1 1													0 0 0 0 1				1 0 0 0	
1 1 0 0 0	1 1	0 0						1						0 0 0 0 1					Saliphagus sp. LR7 Theionarchaea archaeon DG-70
1 0 0 0 0	1 1	1 0	0 1 0					1										0 0 0 1	I heionarchaea archaeon DG-70-1
0 0 0 0 0	0 0																	0 1 0 0	Thermococcaceae
	1 1							1										0 1 0 1	
1 1 0 0 0 0	1 1							1										0 1 0 0	Thermococcus Thermococcus barophilus
1 1 0 0 0	1 1							1										0 1 0 0	Thermococcus barophilus MP Thermococcus barossii
1 1 0 0 0	0 1																		Thermococcus celer
1 1 0 0 0	0 1							1											Thermococcus celer Vu 13 = JCM 855
1 1 0 0 0	1 1							1										0 1 0 0	Thermococcus celericrescens Thermococcus chitonophagus
1 1 0 0 0	1 1							1										0 0 0 1	Thermococcus cleftensis Thermococcus eurythermalis
1 1 0 0 0 1 1 0 0 0	1 1							1										0001	Thermococcus gammatolerans
1 1 0 0 0	1 1							0										0 1 0 0	Thermococcus gorgonarius
1 1 0 0 0 1 1 0 0 0	0 1																		Thermococcus guaymasensis Thermococcus guaymasensis DSM 1
1 1 0 0 0	1 1																	0 0 0 0	Thermococcus kodakarensis
1 1 0 0 0	1 1							1										0 1 0 0	Thermococcus kodakarensis KOD1 Thermococcus litoralis
1 1 0 0 0	1 1							1										0 1 0 0	Thermococcus litoralis DSM 5473
1 1 0 0 0	1 1																		Thermococcus nautili Thermococcus onnurineus
1 1 0 0 0	1 1																	0 1 0 0	Thermococcus onnurineus NA1 Thermococcus pacificus
1 1 0 0 0	1 1							0										0 1 0 0	Thermococcus paralvinellae Thermococcus peptonophilus
1 1 0 0 0	1 1							0										0 1 0 0	I nermococcus piezopniius
1 1 0 0 0	0 1																	0 0 0 1	Thermococcus profundus Thermococcus radiotolerans
1 1 0 0 0	0 1																	0 1 0 0	I hermococcus sibiricus
1 1 0 0 0	0 1							1										0 1 0 0	Thermococcus sibiricus MM 739 Thermococcus siculi
1 1 0 0 0	0 1							0										0000	Thermococcus sp. 101 C5
1 1 0 0 0 1 1 0 0 0	0 1																	0 0 0 1	Thermococcus sp. 18S1 Thermococcus sp. 21S7
1 1 0 0 0 1 1 0 0 0	1 1							0										0 1 0 0	Thermococcus sp. 21S9 Thermococcus sp. 2319x1
1 1 0 0 0	0 1							0										0 1 0 0	Thermococcus sp. 40_45
1 1 0 0 0 1 1 0 0 0	1 1																	0 1 0 1	Thermococcus sp. 4557 Thermococcus sp. 5–4
1 1 0 0 0	1 1																	0 0 0 0	Thermococcus sp. 9N3
1 1 0 0 0	1 1							1										0 1 0 1	Thermococcus sp. Bubb.Bath
1 1 0 0 0	1 1																	0 1 0 0	Thermococcus sp. CX2 Thermococcus sp. EP1
1 1 0 0 0	1 1																		Thermococcus sp. ES12
1 1 0 0 0 1 1 0 0 0	1 1																	0 1 0 0	Thermococcus sp. EXT12c Thermococcus sp. GR4
	1 1																	0 0 0 0	
	IΩ	SET DOT1	CupinJmjC SWIRM	Bromodomain BIR BAH ADD_DNMT3	CHO MB	PWN PHD	A A B E	SNF2_N	ASF	JEN S	zf-CCHH SSrecog SPT16 R#106	B N I	ATF7IP	PTIP NCOA6 Menin Dpy-30	AF9 TRRAP	SLED SAM YAF2_RYBP PCRing	CAF1C Suz12	WD40 zf-CXXC zf-C2H2 Kelch	
ACREA MOZ	St R	$\neg$									シュッゴ								
MOZ_SAS KAT11 Hat1_N GNAT_acetyltr_	SIR2 Hist_deacetyl	77	RE L	N od v	. ₹	° ₽Ã	SSS	Z	¹⊒: E	õ	၈၈႘္ဍ	Pβ β	Ö	30	Ð	ng [R]	20	- 55°	

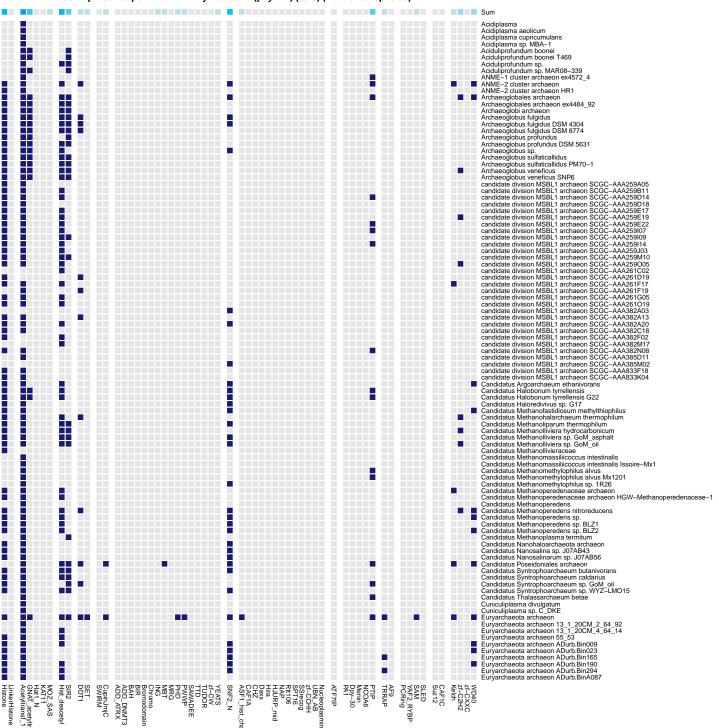
#### Gene presence per taxon in Euryarchaeota (phylum) (12/13)



### Gene presence per taxon in Euryarchaeota (phylum) (13/13)

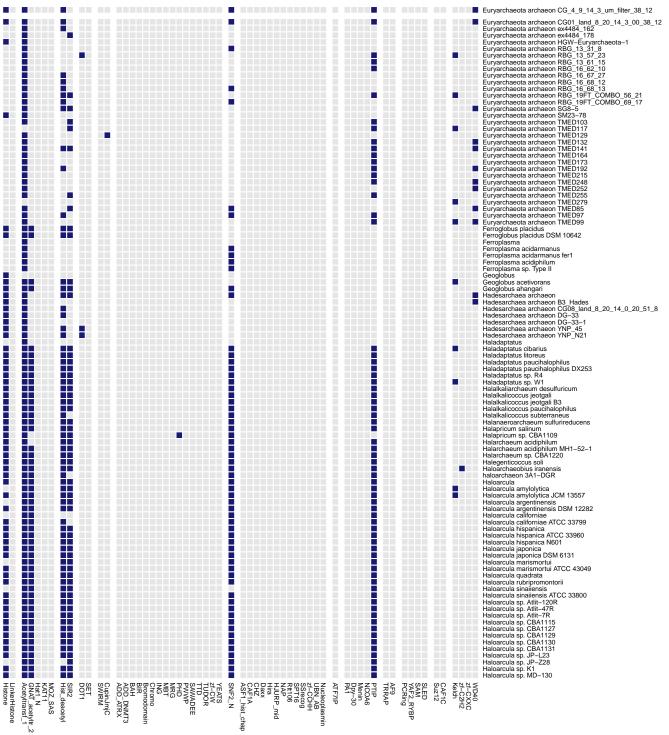


### Gene presence per taxon in Euryarchaeota (phylum) (1/13) (fraction of species)



0.8

## Gene presence per taxon in Euryarchaeota (phylum) (2/13) (fraction of species)

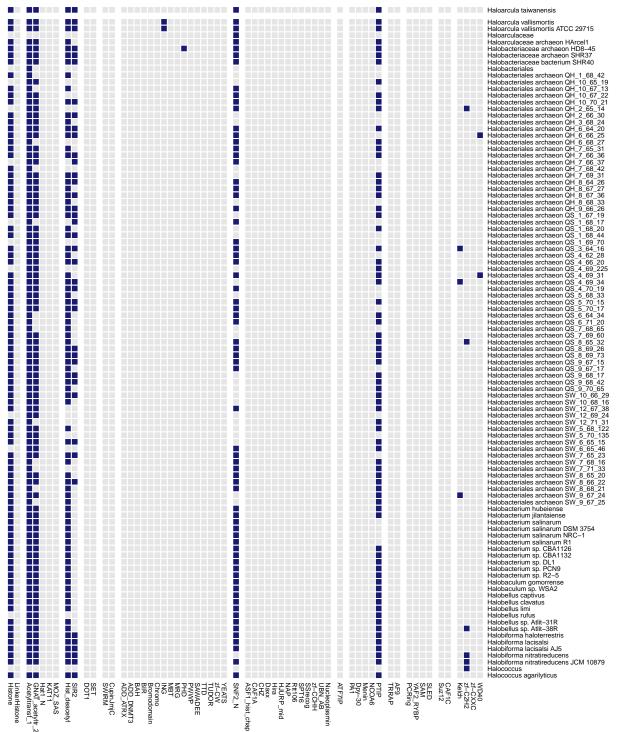


8.0

0.6

0.4

## Gene presence per taxon in Euryarchaeota (phylum) (3/13) (fraction of species)

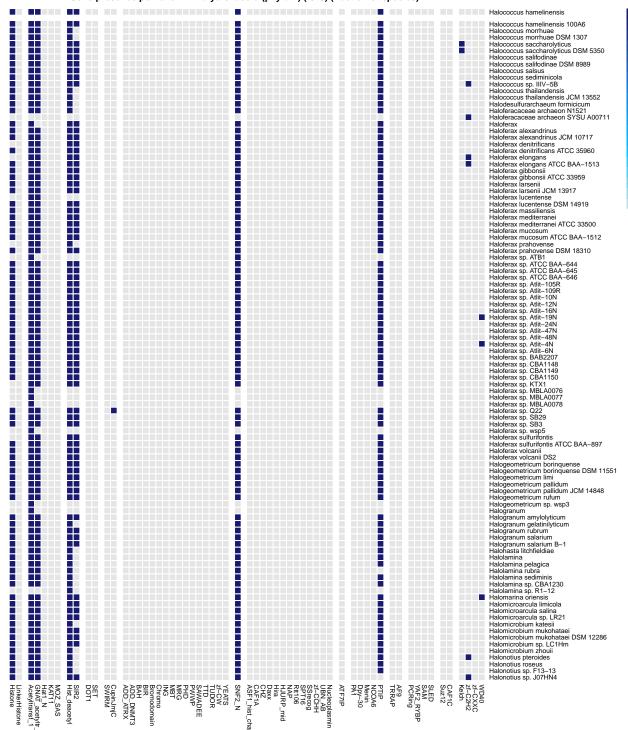


0.8

0.6

0.4

### Gene presence per taxon in Euryarchaeota (phylum) (4/13) (fraction of species)

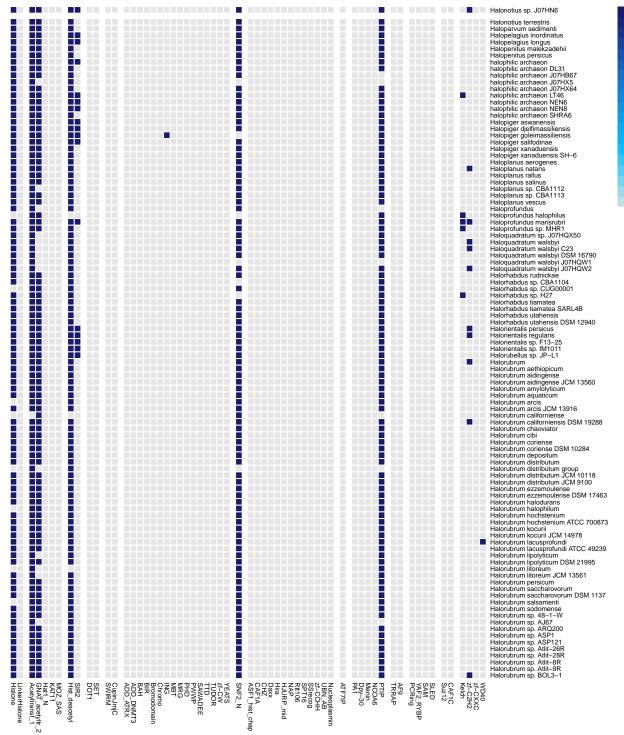


0.8

0.6

0.4

### Gene presence per taxon in Euryarchaeota (phylum) (5/13) (fraction of species)

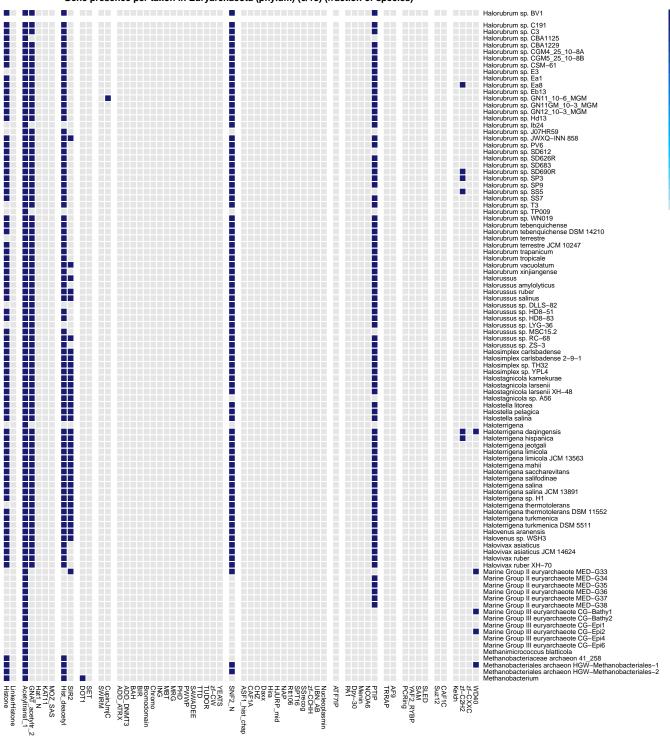


8.0

0.6

0.4

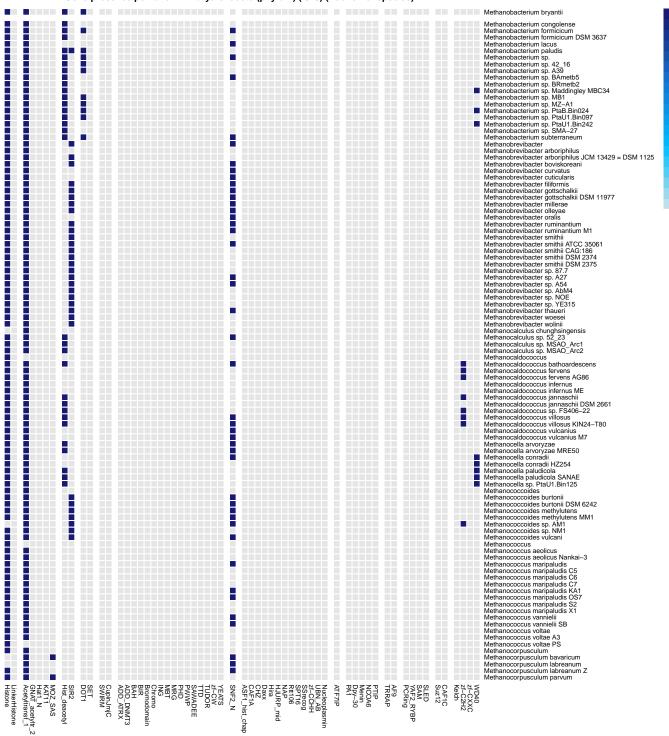
### Gene presence per taxon in Euryarchaeota (phylum) (6/13) (fraction of species)



0.8

0.6

### Gene presence per taxon in Euryarchaeota (phylum) (7/13) (fraction of species)

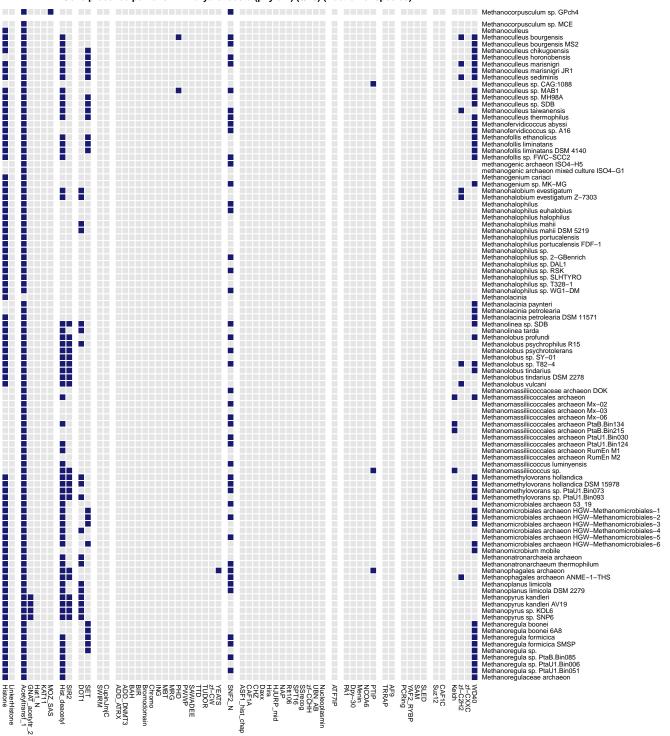


0.8

0.6

0.4

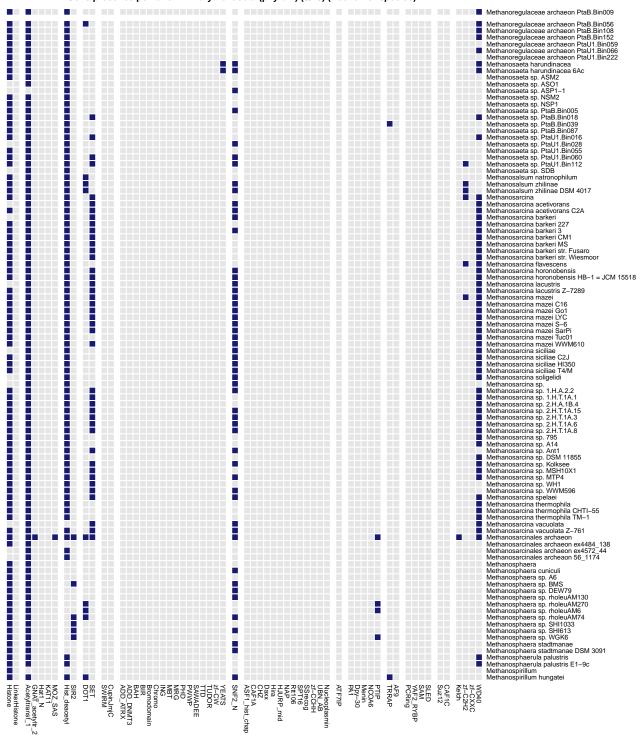
### Gene presence per taxon in Euryarchaeota (phylum) (8/13) (fraction of species)



0.8

0.6

## Gene presence per taxon in Euryarchaeota (phylum) (9/13) (fraction of species)

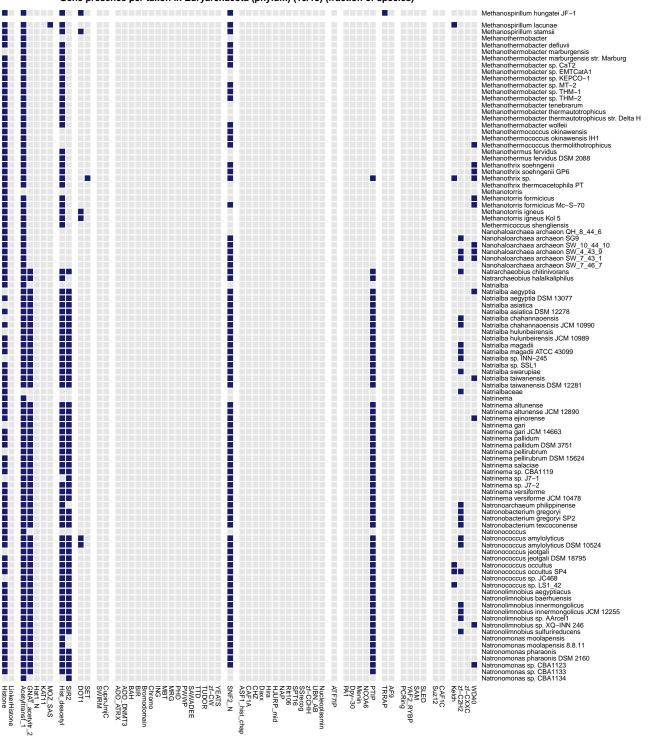


8.0

0.6

0.4

#### Gene presence per taxon in Euryarchaeota (phylum) (10/13) (fraction of species)

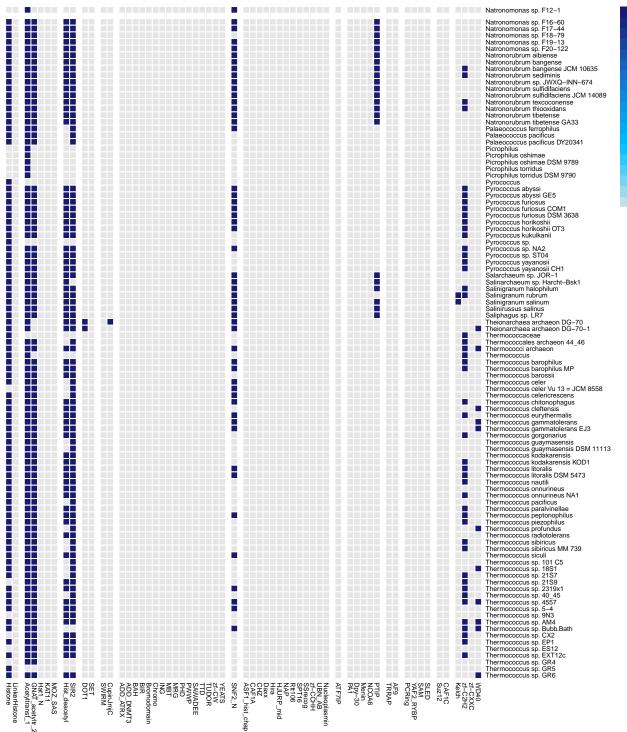


8.0

0.6

0.4

### Gene presence per taxon in Euryarchaeota (phylum) (11/13) (fraction of species)

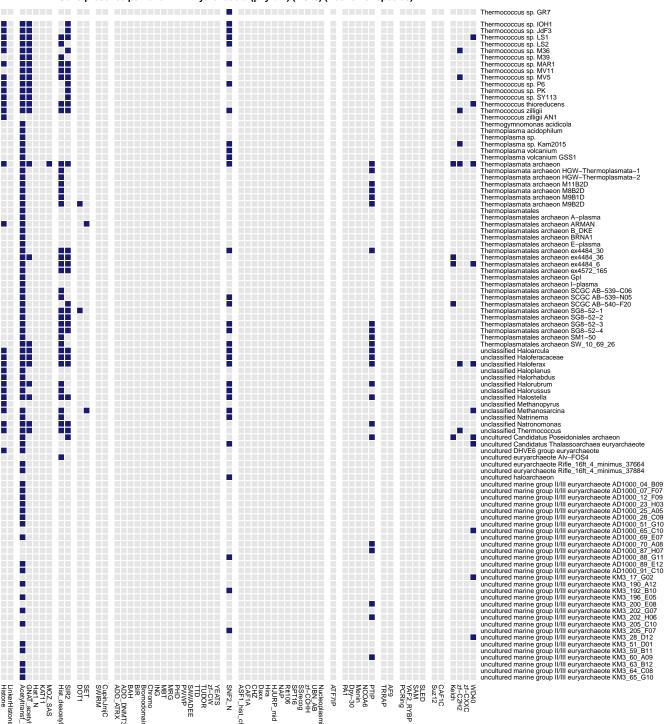


0.8

0.6

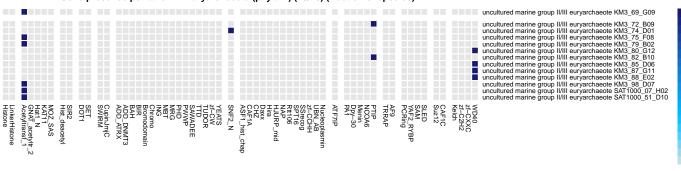
0.4

## Gene presence per taxon in Euryarchaeota (phylum) (12/13) (fraction of species)



0.8

### Gene presence per taxon in Euryarchaeota (phylum) (13/13) (fraction of species)

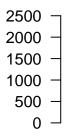


8.0

0.6

0.4

# num species per group



```
candidate division MSBL1 archaeon acceptations and desire division MSBL1 archaeon acceptations and acceptations and acceptations acceptations and acceptations and acceptations acceptations and acceptations acceptations acceptation acc
```