Table 1: **Mean AUPR-Success on our NINCO dataset.** Higher is better. The difference to MSP is shown in red if a method performs worse, and in green if it improves. Bold values mark the best-performing method per model. Sample sizes were fixed such that there are five times as many ID samples than OOD samples.

pre	acc.	model	MSP	MaxL	Ener	KL-M	Maha	RMaha	ViM	E+R	KNN	Cos	MCM/RCos
21k	86.0	ViT-B-384	97.0	98.1 +1	98.1 +1	96.0 −1	**98.9** +2	98.6 +2	98.5 +2	98.2 +1	96.4 −1	98.0 +1	98.0 +1
	84.5	ViT-B-224	96.5	97.7 +1	97.7 +1	95.7 −1	**98.6** +2	98.4 +2	98.2 +2	97.6 +1	95.4 −1	97.5 +1	97.4 +1
	86.3	Swinv2-B-256	96.1	95.6 −0	95.1 −1	96.2 +0	97.2 +1	97.3 +1	97.5 +1	96.4 +0	95.7 −0	97.3 +1	**97.5** +1
	86.7	Deit3-B-384	93.7	90.7 −3	89.5 −4	95.5 +2	97.5 +4	97.6 +4	97.3 +4	92.2 −2	96.6 +3	97.6 +4	**97.7** +4
	85.7	Deit3-B-224	93.5	90.8 −3	89.6 −4	95.1 +2	97.3 +4	**97.3** +4	96.9 +3	91.7 −2	96.1 +3	97.3 +4	97.2 +4
	86.3	CnvNxt-B	96.5	95.8 −1	95.2 −1	96.9 +0	98.1 +2	98.1 +2	**98.3** +2	96.0 −0	96.7 +0	98.0 +2	98.1 +2
	84.1	CnvNxt-T	95.7	95.4 −0	95.1 −1	95.9 +0	97.6 +2	97.3 +2	**98.2** +3	95.4 −0	96.4 +1	97.3 +2	97.4 +2
	82.3	BiT-m	95.8	96.1 +0	96.0 +0	95.0 −1	97.9 +2	97.6 +2	**98.3** +2	97.4 +2	96.5 +1	97.5 +2	97.2 +1
	85.6	EffNetv2-M	96.0	95.1 −1	94.5 −2	96.6 +1	97.0 +1	97.1 +1	96.7 +1	93.3 −3	95.6 −0	**97.4** +1	97.0 +1
none	81.1	ViT-B-384	95.1	95.9 +1	95.7 +1	94.0 −1	96.6 +1	**96.9** +2	95.2 +0	96.0 +1	94.2 −1	95.9 +1	95.7 +1
	84.6	Swinv2-B-256	94.7	92.9 −2	91.7 −3	95.0 +0	**96.7** +2	96.7 +2	94.1 −1	93.8 −1	95.1 +0	96.4 +2	96.6 +2
	85.1	Deit3-B-384	95.3	93.1 −2	90.2 −5	95.3 −0	96.8 +2	**97.1** +2	95.9 +1	89.3 −6	94.5 −1	96.3 +1	96.5 +1
	83.8	Deit3-B-224	95.5	94.7 −1	93.7 −2	95.3 −0	96.6 +1	**97.0** +1	96.2 +1	93.3 −2	93.7 −2	95.9 +0	96.2 +1
	82.6	XCiT-M-224	93.9	91.4 −3	88.6 −5	94.8 +1	96.2 +2	**96.5** +3	96.4 +3	91.9 −2	94.7 +1	96.0 +2	96.1 +2
	84.3	XCiT-M-224-d	95.9	94.9 −1	93.3 −3	95.4 −0	96.4 +1	**96.9** +1	96.4 +1	94.2 −2	94.9 −1	96.5 +1	96.5 +1
	84.4	CnvNxt-B	95.1	94.0 −1	91.7 −3	95.5 +0	96.2 +1	96.6 +2	95.2 +0	93.6 −1	94.6 −0	96.4 +1	**96.7** +2
	78.0	BiT-s	95.0	94.1 −1	93.6 −1	94.8 −0	92.2 −3	**96.7** +2	93.5 −1	94.0 −1	90.5 −5	93.8 −1	91.0 −4
	85.1	EffNetv2-M	94.7	92.8 −2	90.4 −4	95.6 +1	96.6 +2	**97.3** +3	94.1 −1	93.1 −2	95.4 +1	96.8 +2	96.8 +2
	84.9	EffNetb7	93.4	89.9 −4	87.3 −6	95.8 +2	95.9 +3	**97.3** +4	94.8 +1	89.7 −4	95.2 +2	96.6 +3	96.8 +3
	77.7	EffNet-B0	95.0	93.9 −1	93.2 −2	95.1 +0	94.0 −1	96.1 +1	95.2 +0	94.3 −1	94.1 −1	**96.2** +1	95.6 +1
	80.4	ResNet50	95.3	95.3 −0	95.2 −0	93.4 −2	93.7 −2	**96.5** +1	95.2 −0	91.3 −4	93.1 −2	96.1 +1	96.3 +1
JFT	86.8	EffNetb7-ns	95.4	94.1 −1	92.5 −3	95.5 +0	94.7 −1	**97.1** +2	93.7 −2	93.4 −2	94.5 −1	96.5 +1	96.4 +1
clip +21k	87.2	ViT-B-384-l2b	95.2	93.2 −2	91.7 −4	97.3 +2	97.9 +3	97.9 +3	**98.2** +3	93.6 −2	97.3 +2	98.2 +3	98.1 +3
	87.0	ViT-B-384-oai	96.1	94.7 −1	94.1 −2	96.9 +1	97.8 +2	97.9 +2	97.9 +2	95.0 −1	97.4 +1	98.1 +2	**98.2** +2
clip	86.6	ViT-B-384-l2b	93.6	90.2 −3	88.7 −5	96.3 +3	97.2 +4	97.1 +4	96.9 +3	89.7 −4	96.1 +3	**97.5** +4	97.4 +4
	86.2	ViT-B-384-oai	92.9	89.0 −4	87.5 −5	95.7 +3	97.2 +4	97.1 +4	97.0 +4	88.5 −4	95.8 +3	97.2 +4	**97.3** +4
clip	74.3	clip-ViT-L-336	—	—	—	—	—	—	—	—	—	**95.4**	95.3
z. shot	66.6	clip-ViT-B-224	—	—	—	—	—	—	—	—	—	**93.9**	93.6

Table 2: **Mean AUPR-Error on our NINCO dataset.** Higher is better. The difference to MSP is shown in red if a method performs worse, and in green if it improves. Bold values mark the best-performing method per model. Sample sizes were fixed such that there are five times as many ID samples than OOD samples.

pre	acc.	model	MSP	MaxL	Ener	KL-M	Maha	RMaha	ViM	E+R	KNN	Cos	MCM/RCos
21k	86.0	ViT-B-384	59.2	68.4 +9	69.4 +10	58.8 −0	**77.7** +18	75.4 +16	73.1 +14	66.4 +7	47.8 −11	61.1 +2	62.2 +3
	84.5	ViT-B-224	54.2	62.2 +8	63.5 +9	56.6 +2	**76.0** +22	74.1 +20	68.3 +14	59.0 +5	41.9 −12	55.5 +1	56.0 +2
	86.3	Swinv2-B-256	59.1	66.1 +7	67.3 +8	52.1 −7	55.3 −4	59.9 +1	59.7 +1	**69.0** +10	48.6 −11	58.0 −1	61.0 +2
	86.7	Deit3-B-384	51.3	51.5 +0	49.8 −2	51.5 +0	58.3 +7	**61.6** +10	56.3 +5	54.6 +3	55.0 +4	61.6 +10	61.0 +10
	85.7	Deit3-B-224	48.0	48.6 +1	47.5 −1	46.8 −1	54.6 +7	**57.2** +9	51.6 +4	50.5 +3	50.2 +2	56.7 +9	57.1 +9
	86.3	CnvNxt-B	62.5	65.3 +3	63.7 +1	54.5 −8	68.6 +6	**71.2** +9	68.6 +6	66.9 +4	55.3 −7	64.6 +2	65.3 +3
	84.1	CnvNxt-T	56.3	60.8 +5	62.6 +6	51.4 −5	66.3 +10	66.5 +10	**71.2** +15	63.4 +7	51.4 −5	58.0 +2	60.7 +4
	82.3	BiT-m	47.8	54.3 +6	54.6 +7	51.7 +4	63.6 +16	67.1 +19	**68.3** +20	62.2 +14	55.7 +8	61.9 +14	60.1 +12
	85.6	EffNetv2-M	58.6	58.5 −0	54.1 −5	55.6 −3	52.4 −6	57.7 −1	55.3 −3	30.9 −28	44.2 −14	**61.9** +3	59.1 +0
none	81.1	ViT-B-384	44.2	48.4 +4	48.0 +4	49.2 +5	56.9 +13	**61.1** +17	46.1 +2	50.3 +6	39.2 −5	46.1 +2	45.3 +1
	84.6	Swinv2-B-256	45.9	46.0 +0	41.2 −5	47.2 +1	50.3 +4	**54.1** +8	44.4 −2	44.5 −1	42.3 −4	48.8 +3	49.9 +4
	85.1	Deit3-B-384	47.5	42.3 −5	28.8 −19	49.4 +2	49.3 +2	**53.9** +6	51.2 +4	26.6 −21	37.4 −10	45.3 −2	53.2 +6
	83.8	Deit3-B-224	47.1	45.2 −2	36.4 −11	46.8 −0	47.5 +0	51.3 +4	**51.7** +5	35.5 −12	34.2 −13	42.7 −4	51.2 +4
	82.6	XCiT-M-224	42.4	39.9 −2	34.5 −8	44.3 +2	51.3 +9	**54.0** +12	51.7 +9	38.0 −4	39.3 −3	45.9 +3	47.6 +5
	84.3	XCiT-M-224-d	48.4	49.0 +1	42.9 −5	47.8 −1	49.5 +1	**53.4** +5	51.0 +3	43.1 −5	40.4 −8	47.5 −1	50.8 +2
	84.4	CnvNxt-B	51.8	47.5 −4	31.1 −21	45.2 −7	48.3 −4	**53.4** +2	47.2 −5	36.9 −15	40.4 −11	49.1 −3	52.8 +1
	78.0	BiT-s	37.9	35.4 −2	33.7 −4	48.4 +11	32.2 −6	**55.2** +17	37.2 −1	38.4 +1	29.3 −9	40.6 +3	31.3 −7
	85.1	EffNetv2-M	48.4	47.0 −1	37.2 −11	51.4 +3	52.2 +4	**58.9** +10	42.4 −6	42.4 −6	48.1 −0	51.8 +3	57.8 +9
	84.9	EffNetb7	46.1	41.0 −5	29.3 −17	50.3 +4	46.9 +1	**57.4** +11	41.8 −4	33.9 −12	45.6 −1	50.7 +5	57.1 +11
	77.7	EffNet-B0	44.3	43.2 −1	38.5 −6	45.4 +1	34.3 −10	46.2 +2	39.1 −5	41.0 −3	33.1 −11	**52.6** +8	49.5 +5
	80.4	ResNet50	43.7	42.9 −1	40.9 −3	46.6 +3	32.6 −11	51.0 +7	38.6 −5	20.7 −23	37.3 −6	52.7 +9	**54.5** +11
JFT	86.8	EffNetb7-ns	51.3	**52.8** +1	47.5 −4	48.7 −3	35.3 −16	50.2 −1	32.1 −19	46.4 −5	39.4 −12	48.6 −3	50.5 −1
clip +21k	87.2	ViT-B-384-l2b	58.9	58.2 −1	53.3 −6	56.5 −2	63.4 +5	63.9 +5	**67.7** +9	59.4 +1	61.9 +3	66.7 +8	66.2 +7
	87.0	ViT-B-384-oai	59.2	61.3 +2	60.0 +1	57.2 −2	60.5 +1	64.3 +5	63.2 +4	62.8 +4	59.7 +0	66.2 +7	**67.3** +8
clip	86.6	ViT-B-384-l2b	51.3	47.4 −4	41.4 −10	54.6 +3	57.2 +6	59.0 +8	56.3 +5	44.7 −7	51.9 +1	**59.3** +8	59.2 +8
	86.2	ViT-B-384-oai	47.1	42.7 −4	37.0 −10	50.0 +3	57.3 +10	**59.1** +12	56.4 +9	38.8 −8	49.8 +3	55.7 +9	57.1 +10
clip	74.3	clip-ViT-L-336	—-	—-	—-	—-	—-	—-	—-	—-	—-	44.8	**46.7**
z. shot	66.6	clip-ViT-B-224	—-	—-	—-	—-	—-	—-	—-	—-	—-	**39.0**	38.0