

1 **Assessment of suitable reference genes for RT-qPCR studies in chronic rhinosinusitis**

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3 Tsuguhisa Nakayama, Naoko Okada, Mamoru Yoshikawa, Daiya Asaka, Akihito Kuboki,

4 Hiromi Kojima, Yasuhiro Tanaka, Shin-ichi Haruna

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6 Corresponding author: Tsuguhisa Nakayama

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8 **Supplementary information**

Variables	Slope	Efficiency	R²	Intercept
<i>ACTB</i>	-3.167	106.7	0.998	24.048
<i>ATP5F1</i>	-3.280	101.8	0.995	29.535
<i>B2M</i>	-3.167	106.9	0.997	25.409
<i>GAPDH</i>	-3.144	108.0	0.996	26.556
<i>GUSB</i>	-3.159	107.3	0.995	31.360
<i>HPRT1</i>	-3.122	109.1	0.996	31.260
<i>PGKI</i>	-3.200	105.4	0.993	30.202
<i>PPIA</i>	-3.156	107.4	0.994	25.494
<i>RPLP0</i>	-3.240	103.5	0.987	25.193
<i>RPLP1</i>	-3.107	109.8	0.994	23.812
<i>RPLP2</i>	-3.176	102.0	0.999	25.036
<i>RPS18</i>	-3.121	109.1	0.998	24.873
<i>TBP</i>	-3.235	103.8	0.975	33.082
<i>TFRC</i>	-3.219	104.4	0.989	30.780
<i>YWHAZ</i>	-3.259	102.3	0.998	28.498

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10 **Supplementary Table S1. qPCR parameters for the standard curve for each primer pair**

Variables	First stage				p value	Second stage			
	NP CRSwNP n=11	UP CRSwNP n=10	UP CRSsNP n=8	UP Control n=10		NP ECRSwNP n=13	NP NECRSwNP n=15	UP CRSsNP n=8	p value
Age (mean ± SD)	51.9 ± 19.2	59.1 ± 12.6	50.9 ± 14.7	41.0 ± 11.2	0.086	53.8 ± 10.0	55.9 ± 18.8	51.1 ± 19.4	0.813
Sex, %female	18.2	10.0	50.0	20.0	0.218	61.5	26.7	37.5	0.169
CT score	14.8 ± 4.6	14.4 ± 3.1	9.8 ± 2.7	-	0.100	11.2 ± 6.0	10.7 ± 5.6	5.9 ± 3.3	0.047
Polyp Score	4.8 ± 2.0	4.1 ± 1.7	-	-	0.427	8.0 ± 6.6	3.1 ± 2.9	-	0.010
Asthma, n(%)	1 (9.1)	0 (0.0)	1 (12.5)	1 (10.0)	0.761	7 (53.8)	4 (26.7)	2 (25.0)	0.249
Previous surgery, n (%)	1 (9.1)	0 (0.0)	0 (0.0)	0 (0.0)	0.455	4 (19.4)	2 (13.3)	1 (12.5)	0.434
History of smoking									
Current smoker, n (%)	3 (27.3)	1 (10.0)	1 (12.5)	1 (10.0)	0.639	0 (0.0)	2 (13.3)	1 (12.5)	0.396
Past smoker, n (%)	2 (18.2)	5 (50.0)	2 (25.0)	3 (30.0)	0.443	3 (23.1)	8 (53.5)	4 (50.0)	0.233
Blood test									
White blood cells (10 ³ /μl)	6.4 ± 1.3	5.6 ± 1.1	6.1 ± 1.9	5.8 ± 1.2	0.514	6.8 ± 2.2	6.0 ± 1.1	5.1 ± 1.5	0.086
Eosinophils (%)	5.9 ± 4.6	5.5 ± 2.5	6.3 ± 2.3	3.7 ± 2.4	0.272	7.7 ± 4.7	4.5 ± 2.5	5.1 ± 2.5	0.078
Total IgE (IU/ml)	197.3 ± 320.8	162.7 ± 188.2	218.1 ± 180.0	1383.1 ± 2460.0	0.717	153.1 ± 121.7	206.2 ± 240.4	439.7 ± 363.7	0.192

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12 **Supplementary Table S2. Demographic and clinical characteristics of the participants**

13 NP = nasal polyp, UP = uncinat process, CRSwNP = chronic rhinosinusitis with nasal polyps,

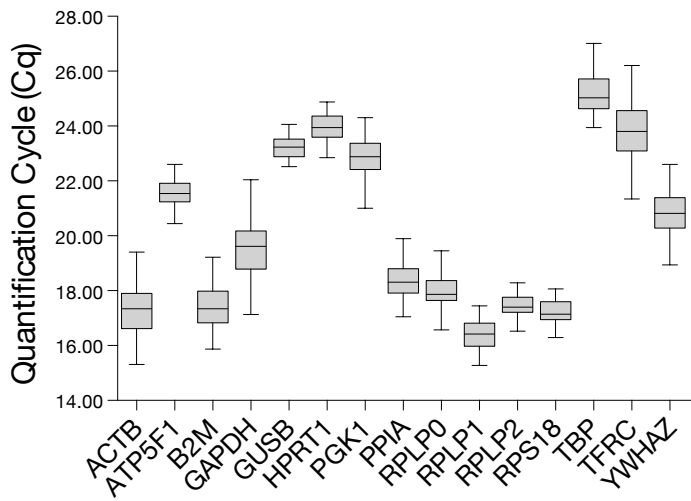
14 CRSsNP = chronic rhinosinusitis without nasal polyps, ECRSwNP = eosinophilic chronic

15 rhinosinusitis with nasal polyps, NECRSwNP = non-eosinophilic chronic rhinosinusitis with nasal

16 polyps, CT = computed tomography.

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20 **Supplementary Figure S1. Quantification cycle (Cq) values for candidate reference genes**