

## Supplementary information

To accompany Peñalver-González, Vallejo-Rodríguez et al., "Golgi Oncoprotein *GOLPH3* Gene Expression is Regulated by Functional E2F and CREB/ATF Promoter Elements "

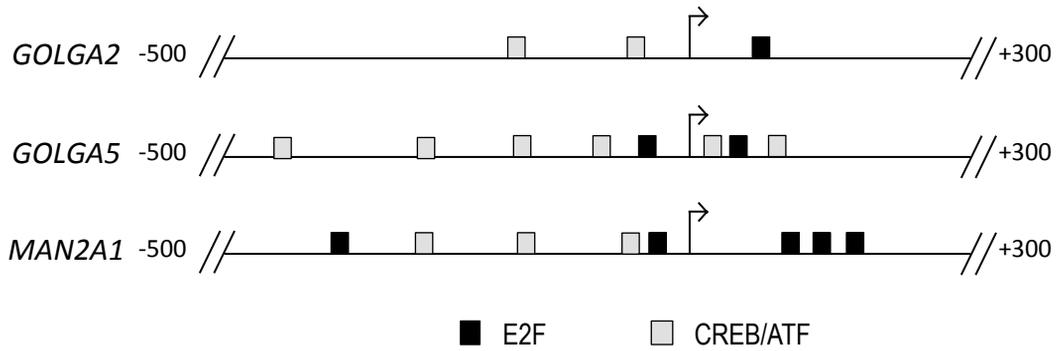
### Figure Legends

**Supplementary Figure 1.** Schematic representation of promoters of genes encoding Golgi proteins. E2F and CREB/ATF transcription factor-binding sites in human *GOLGA2*, *GOLGA5* and *MAN2A1* regulatory regions (-500 to +234) are indicated as boxes. The transcriptional start site is depicted with an arrow.

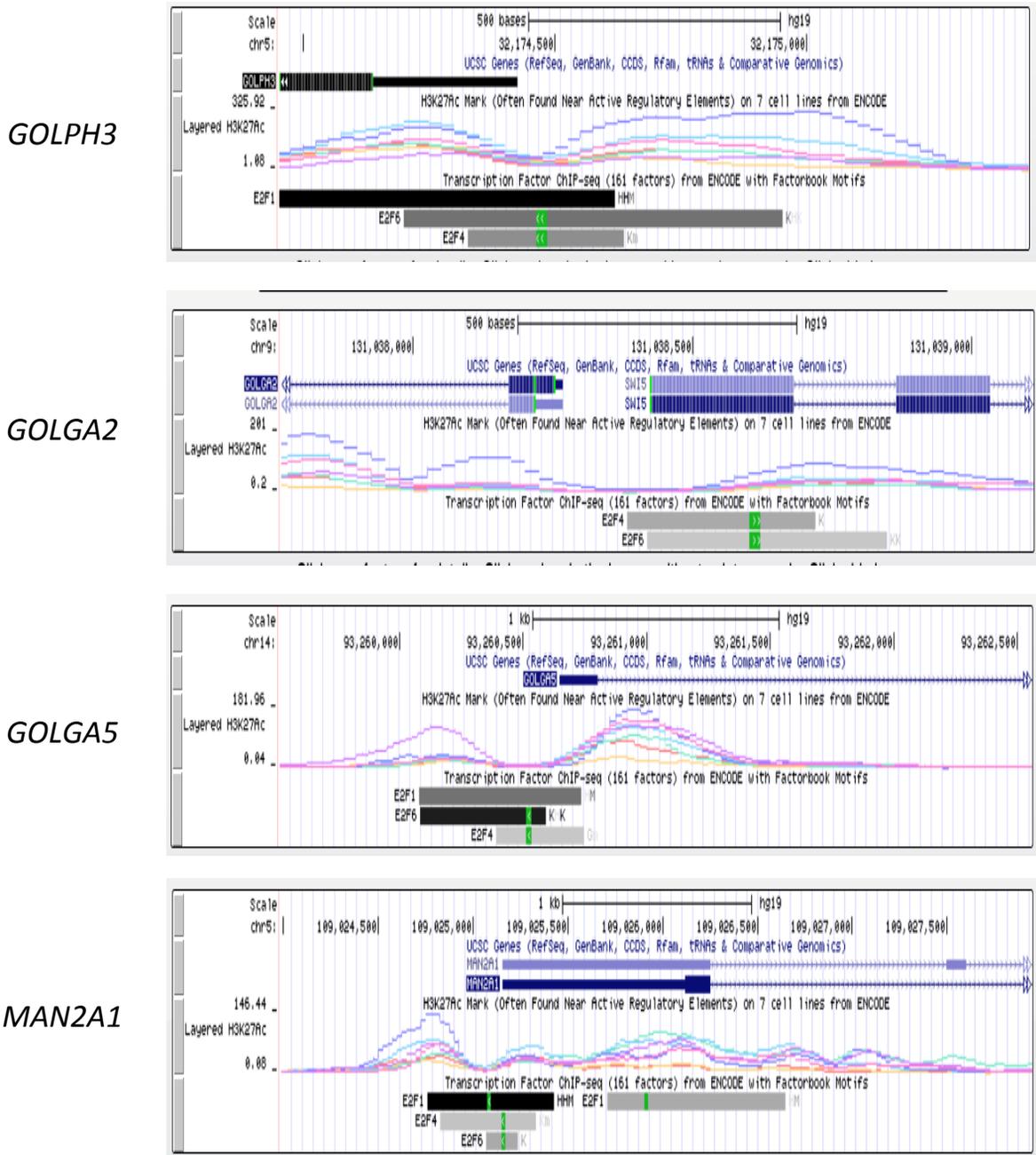
**Supplementary Figure 2.** Graphical representation of E2F transcription factor binding to the promoter regions of indicated genes. H3K27Ac enhancer marks are also included for each gene.

**Supplementary Figure 3.** Sequence alignment of the E2F and CREB/ATF regulatory elements in *GOLPH3* promoter across species. Sequences of the human, chimpanzee, mouse, rat and cow *GOLPH3* promoters are depicted. The asterisk denotes an identical nucleotide in all species tested. Lowercase letter denotes a non-transcribed sequence; uppercase letter denotes a transcribed sequence.

## SUPPLEMENTARY FIGURE 1



## SUPPLEMENTARY FIGURE 2



### SUPPLEMENTARY FIGURE 3

	CREB/ATF	E2F	E2F	CREB/ATF	CREB/ATF
GOLPH3_Human	cacgtcacggga	acgccaaa	ctcccgcg	TCCGGTGACGTCAGCCGG	GACTGCCCCCG
Golph3_Chimpazee	CACGTCACGGGA	ACGCCAAA	CTCCCGCG	TCCGGTGACGTCAGCCGG	GACTGCCCCCG
Golph3_Mouse	gaactgagaggc	-----	gccccgcg	tccggtgacgtcagcgcg	GACCGCCTTCG
Golph3_Rat	gaactgtgaggc	-----	gccccgcg	tccggtgacgtcaacgcg	gactgccttcg
Golph3_Cow	cacgtcacggga	actctaag	gccccgcg	tccagtgacgtcagcgcg	GACTGCATCCA
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**Supplementary Table S1:** Nucleotide sequences of primers used for construction of deletion mutants of *GOLPH3* promoter

Primer	Sequence	R.E.* added	Size (bp)
pGL2-G3P-WT_F	TGC AGA CGC GTC CCA GGC TCT TCC ATT CAC	MluI	488
pGL2-G3P-WT_R	TGC AGA AGC TTR CCG GGT TTC CGT GTT AAA T	HindIII	
pGL2-G3P- ΔUR_F	TGC AGA CGC GTC CCA GGC TCT TCC ATT CAC	MluI	281
pGL2-G3P- ΔUR_R	TGC AGA AGC TTG ATG TGG CAG AGT CG	HindIII	
pGL2-G3P- ΔDR_F	TGC AGA CGC GTT GCC ACA TCC TCC GGT GAC	MluI	260
pGL2-G3P- ΔDR_R	TGC AGA AGC TTT CCG GGT TTC CGT GTT	HindIII	
pGL2-G3P-MR_F	TGC AGA CGC GTC GGG GAC TGC GGC CAC	MluI	176
pGL2-G3P-MR_R	TGC AGA AGC TTT CCG GGT TTC CGT GTT	HindIII	

\* R.E., restriction endonuclease

**Supplementary Table S2:** Nucleotide sequences of primers used for construction of E2F and CREB/ATF motif mutants of *GOLPH3* promoter

Primer	Sequence
pGL2-G3P-E2F Mutants (E2F Mut1, E2F Mut2, E2F Mut1-2)_F1	GGG GGC GCA GGA cCa CtA gAG AAA AGA CAA GCA CCG AGG
pGL2-G3P-E2F Mutants (E2F Mut1, E2F Mut2, E2F Mut1-2)_F2	GCC TCC CGG CCC AGC TCg Cat GtG aCG ACT CTG CCA CAT
pGL2-G3P-CREB Mut_F	TCC TCC GGT cca tgC AGC CGG GGC CGC CAT ATT GGAAAG GCG
pGL2-G3P-CREB Mut_R	GTT GCC ACA TCC TCC GGT cca tgC AGC CGG GGC CGC CAT

**Supplementary Table S3:** Nucleotide sequences of primers used for RT-QPCR experiments

Primer	Sequence
qH_GOLPH3_F	CTG GAT TAC GTG GCT GTA TGT
qH_GOLPH3_R	CCT GTT GGA GCA TCT GAC TT
qH_GOLGA2_F	ACG GAT CAG TTG GAA GAA GAA A
qH_GOLGA2_R	GGA TCC CTA TGG TCT GAA TGT G
qH_MAN2A1_F	TGG TGC CTC ATT CCC ATAAC
qH_MAN2A1_R	CTT CCT CCG TGA GTC TTC TTT C
qH_GOLGA5_F	GCA GAG GGA GGA AAT ACA GAA G
qH_GOLGA5_R	ACT TGC TGT GCC TCC ATA TC
qH_EIF2C2_F	GTC CCT TTT GAG ACG ATC CAG
qH_EIF2C2_R	AGC CAA ACC ACA CTT CTC G