

## SLC34 – Type II Na<sup>+</sup>-phosphate cotransporter family

Human gene name	Protein name	Aliases	Predominant substrates	Transport type / coupling ions <sup>*)</sup>	Tissue distribution and cellular / subcellular expression	Link to disease <sup>#)</sup>	Human gene locus	Sequence accession ID	Splice variants and their features
<a href="#">SLC34A1</a>	NaPi-IIa	NaPi-3, NPT2, SLC11, NAPI-3, NPTIIa, NPHLOP1, SLC17A2	inorganic phosphate	C / Na/HPO <sub>4</sub> <sup>-</sup>	kidney (proximal tubules, apical), osteoclasts, neurons	G / XLH, G / ADHR, A/ OHO, nephrocalciosis, hypophosphatemia, urolithiasis, osteoporosis	5q35	<a href="#">NM_003052.4</a>	
<a href="#">SLC34A2</a>	NaPi-IIb	NaPi-3b, FLJ90534, NAPI-IIb	inorganic phosphate	C / Na/HPO <sub>4</sub> <sup>-</sup>	small intestine, lung, testis, liver, secreting mammary gland	pulmonary alveolar microlithiasis	4p15	<a href="#">NM_006424.2</a>	
<a href="#">SLC34A3</a>	NaPi-IIc	HHRH, NPTIIc, FLJ38680	inorganic phosphate	C / Na/HPO <sub>4</sub> <sup>-</sup>	kidney (proximal tubules, apical)	hypophosphatemic rickets with hypercalciuria	9q34	<a href="#">NM_080877.2</a>	

\*) C: Cotransporter; E: Exchanger; F: Facilitated transporter; O: Orphan transporter

#) A: Acquired defect, G: Genetic defect, P: Pseudogene

### References:

*Original version of the SLC table:*

[Murer H, Forster I, Biber J.](#) The sodium phosphate cotransporter family SLC34. *Pflugers Arch.* 2004 Feb;447(5):763-7.

Questions & Comments