



29408-Review

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ESPS Manuscript NO: 29408

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**1**  
Functional coupling of V-ATPase and CLC-5**1**  
Nobuhiko Satoh, Masashi Suzuki, Motonobu Nakamura, Atsushi Suzuki,

Shoko Horita, George Seki, Kyoji Moriya

Abstract

**7**  
Dent's disease is an X-linked renal tubulopathy characterized by low molecular

## Match Overview



1	<b>Crossref</b> 188 words Nobuhiko Satoh, Hideomi Yamada, Osamu Yamazaki, Masashi Suzuki, Motonobu Nakamura, Atsushi Suzuki, Akira As	7%
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## Functional coupling of chloride-proton exchanger CLC-5 to gastric H<sup>+</sup> ...

[bio.biologists.org/content/3/1/12](http://bio.biologists.org/content/3/1/12) - 翻译此页

作者: Y Takahashi - 2014 - 被引用次数: 7 - 相关文章

CLC-5 may compensate the charge accumulation by the endosomal V-ATPase via [coupling](#) directly vesicular pH gradients to Cl<sup>-</sup> gradients as a secondary ...

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[https://www.researchgate.net/.../259765384\\_Functional\\_coupling\\_of\\_chloride-proton\\_e...](https://www.researchgate.net/.../259765384_Functional_coupling_of_chloride-proton_e...)

It has been reported that chloride-proton exchanger CLC-5 and [vacuolar-type H\(+\)-ATPase](#) are essential for endosomal acidification in the renal proximal cells.

## A pure chloride channel mutant of CLC-5 causes Dent's disease via ...

[www.ncbi.nlm.nih.gov/pubmed/27044412](http://www.ncbi.nlm.nih.gov/pubmed/27044412) - 翻译此页

作者: N Satoh - 2016 - 相关文章

Epub 2016 Apr 5. A pure chloride channel mutant of CLC-5 causes Dent's disease via insufficient V-ATPase activation. ... gene silencing experiments confirmed the [functional coupling](#) between V-ATPase and CLC-5 at the plasma membrane ...

## Function and Interactions of Subunit H of the Vacuolar ATPase

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2008

In yeast, V-ATPase complexes containing the Vph1p subunit a isoform localize ... and have a much higher [coupling](#) efficiency than Stv1-containing V-ATPases, which ... Defects in the Cl(-)/H(+) exchanger



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[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > NCBI > Literature > PubMed Central (PMC) ▾ [翻译此页](#)

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## Functional coupling of chloride-proton exchanger ClC-5 to ... - PubPDF

[www.pubpdf.com/](http://www.pubpdf.com/).../Functional-coupling-of-chloride-proton-exchanger-ClC... - [翻译此页](#)

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[www.docin.com.cn/p-1413246296.html](http://www.docin.com.cn/p-1413246296.html) - [翻译此页](#)

2016年1月3日 - ClC-5 predominantly expressed its expression largely overlaps -ATPase(V-ATPase), which highly expressed renal proximal tubules (Gunther et ...

## A pure chloride channel mutant of CLC-5 causes Dent's ... - Springer

[link.springer.com/article/10.1007/s00424-016-1808-7](http://link.springer.com/article/10.1007/s00424-016-1808-7) - [翻译此页](#)

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2016年4月5日 - Furthermore, gene silencing experiments confirmed the functional coupling between V-

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## Functional coupling of chloride–proton exchanger CIC-5 to gastric H<sup>+</sup> ...

[bio.biologists.org/content/early/2013/11/15/bio.20136205](https://doi.org/10.1007/s00424-016-1808-7) ▾ 翻译此页

作者: Y Takahashi - 2013 - 被引用次数: 7 - 相关文章

2013年11月15日 - **CIC-5** may compensate the charge accumulation by the endosomal **V-ATPase** via **coupling** directly vesicular pH gradients to Cl<sup>-</sup> gradients as a ...

## A pure chloride channel mutant of CLC-5 causes Dent's ... - NCBI

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## A pure chloride channel mutant of CLC-5 causes Dent's ... - Springer

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Furthermore, gene silencing experiments confirmed the **functional coupling** between **V-ATPase** and **CLC-5** at the plasma membrane of isolated mouse PTs.

## CIC-5, the chloride channel mutated in Dent's disease, colocalizes ...