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## <u>Cloning of a Rab3 isotype predominately expressed in adipocytes</u>

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Contributed by Harvey F. Lodish. February 19. 1992

We have isolated the cDNA for Rab3D. an homogenized for 60 sec with a Polvtron homogenizer and ABSTRACT additional member of the small molecular weight GTP-binding incubated at 37°C for 1 hr. The samples were then adjusted protein family. Rab3D message is abundant in mouse adipoto 0.4 M NaCl and incubated at room temperature for 1 hr

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50°C for 1 min. and 72°C for 20 sec.
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cDNA libraries were constructed from 3T3-L1 preadipocvte fibroblasts and differentiated adipocvtes in the vector
pcDNA-1 (18). After subtraction of the adipocyte library with
the preadipocyte one. the enrichment for GLUT4 cDNA was
>100-fold (not shown).

Biochemistry: Baldini et al.

	Rat 3A Bovine 3A	<sup>1</sup> MAS ATDSRYGQKESS DQ MAS ATDARYGOKESS DO	NFDYMFKILIIGNSSVGKTSFLFRY NFDYMFKILIIGNSSVGKTSFLFRY	ADDSFTPAFVSTV	
W###					
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Tubulin					
	State \$ - II o	— 1.6 kb			
GLUT4 2.7 kb					
			.5 kb**Acuit		=
.0 kb. Rab3D	1. 11. 11. 1. 1				
ראטי ראטי ראטי			.0 kb Rab3D — 2.3 kb		2 Se 1.5
	day 0	day 4 day 6 day 8		3-I1 diff Spleen Lung Heart phragm Fat	Testis — Brain — Liver —
3T3	undiff. day 0		Kidney	3T3-I1 diff. Spleen Lung Heart Diaphragm	

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	H <u>ere</u> v	we describe the cloning and properties of an additional	library and Bernard Thorens for helpful discussion. This research
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