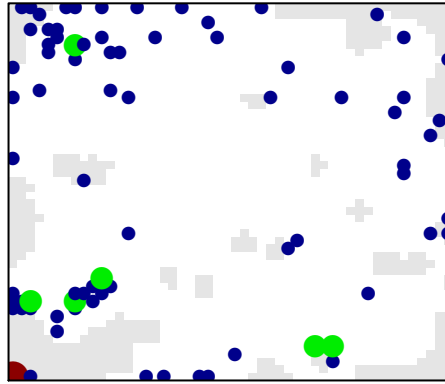


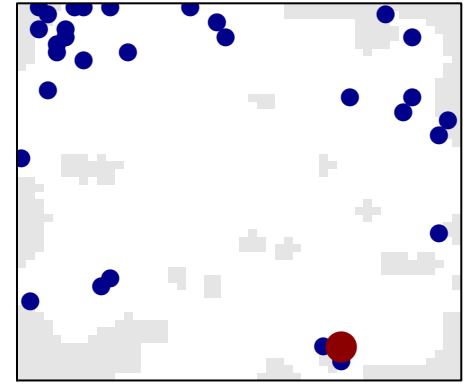
# Antigen processing and presentation

all genes

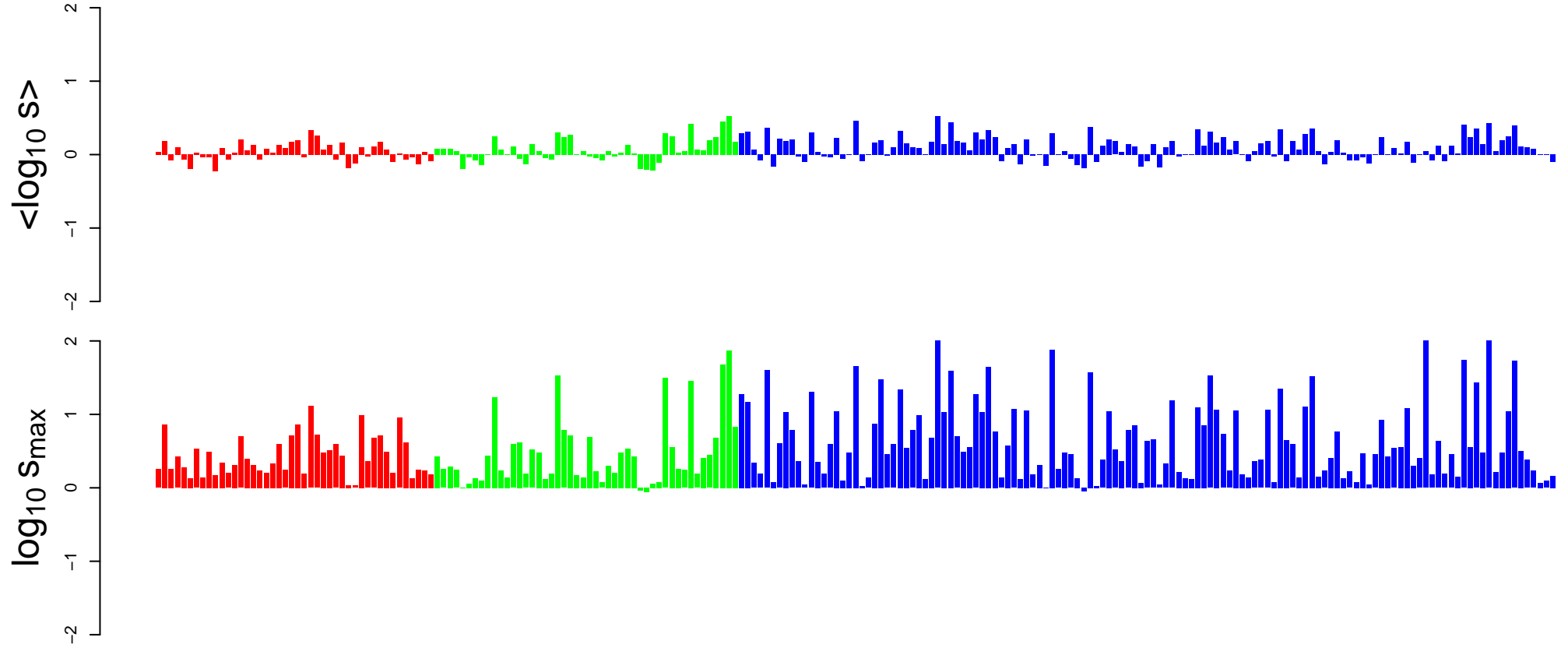


maximum = 3

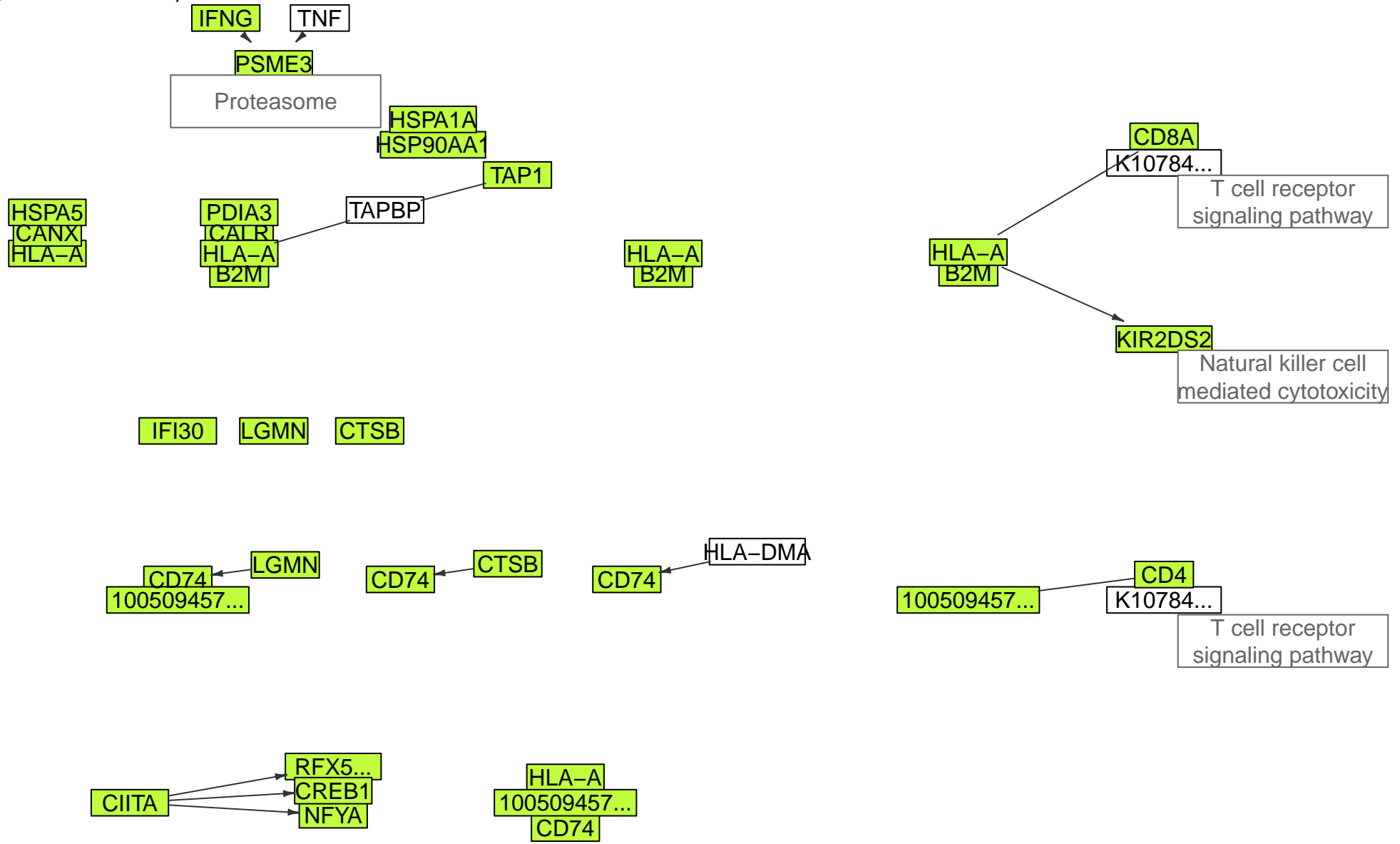
sink node genes



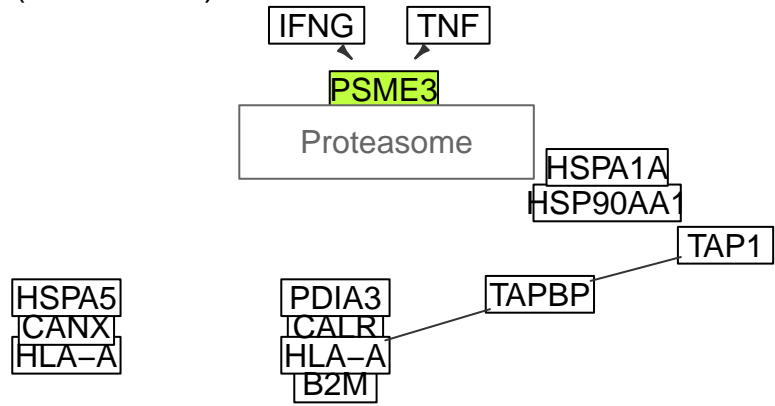
maximum = 2



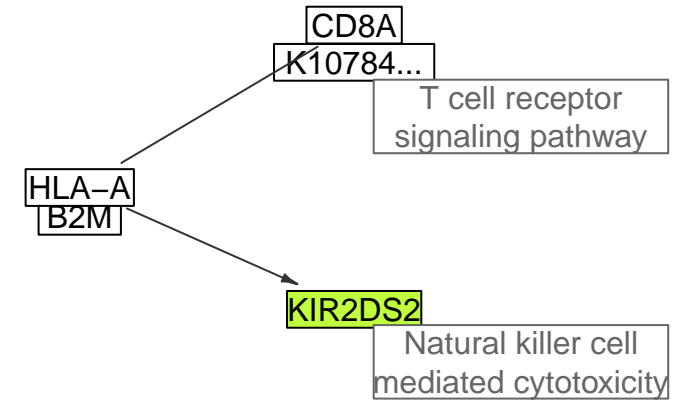
Antigen processing and presentation  
(genes with data)



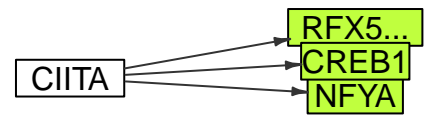
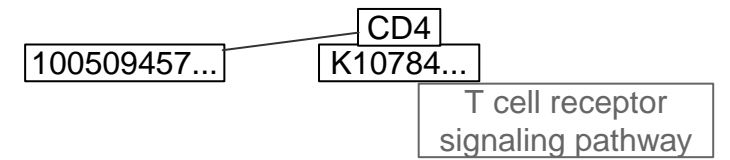
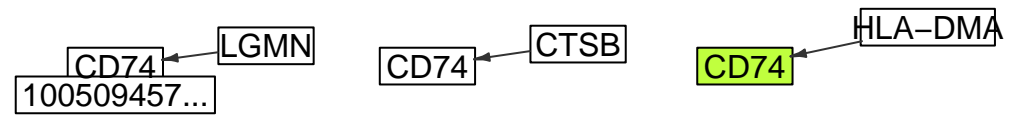
Antigen processing and presentation (sink nodes)



HLA-A  
B2M

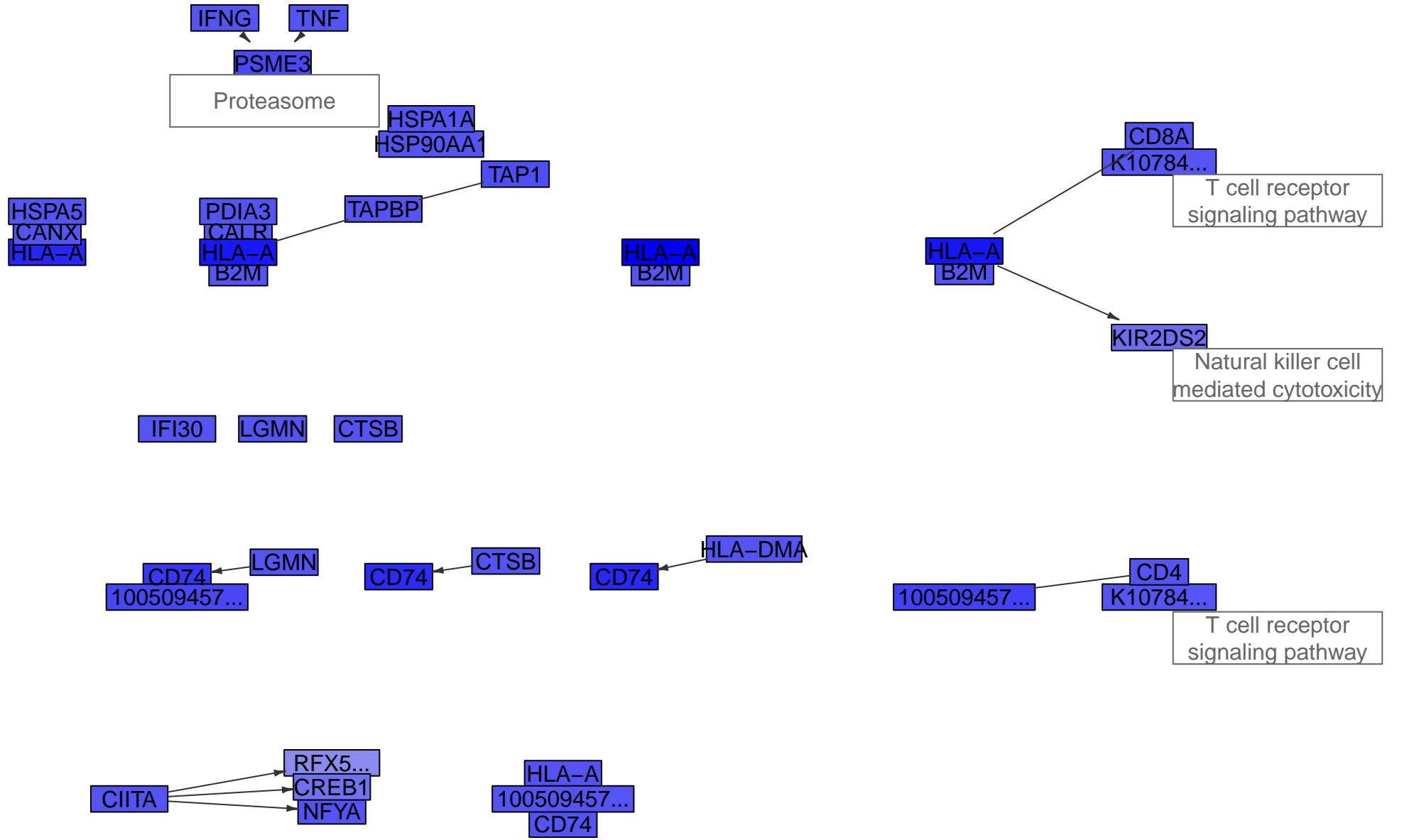


IFI30 LGMN CTSB

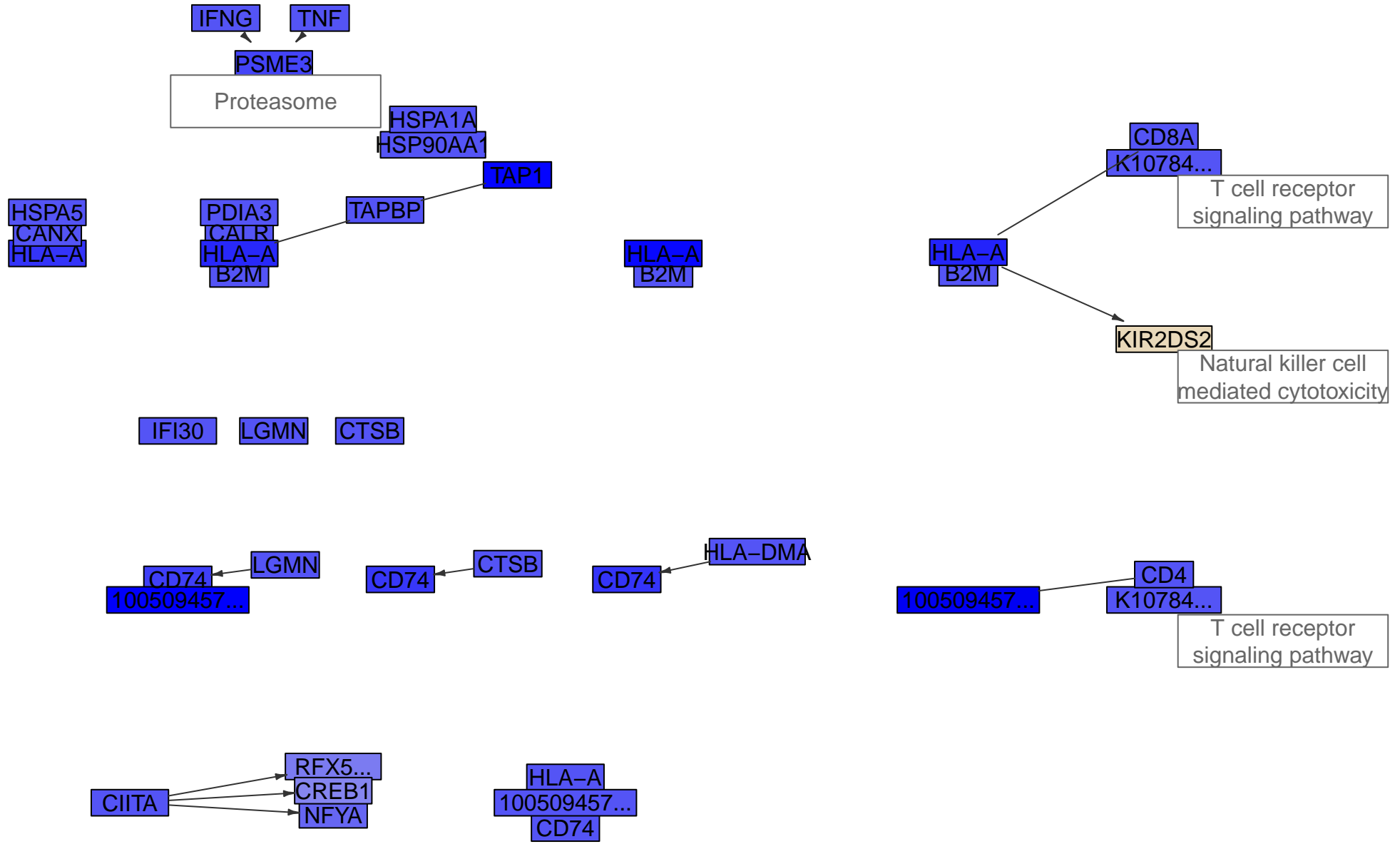


HLA-A  
100509457...  
CD74

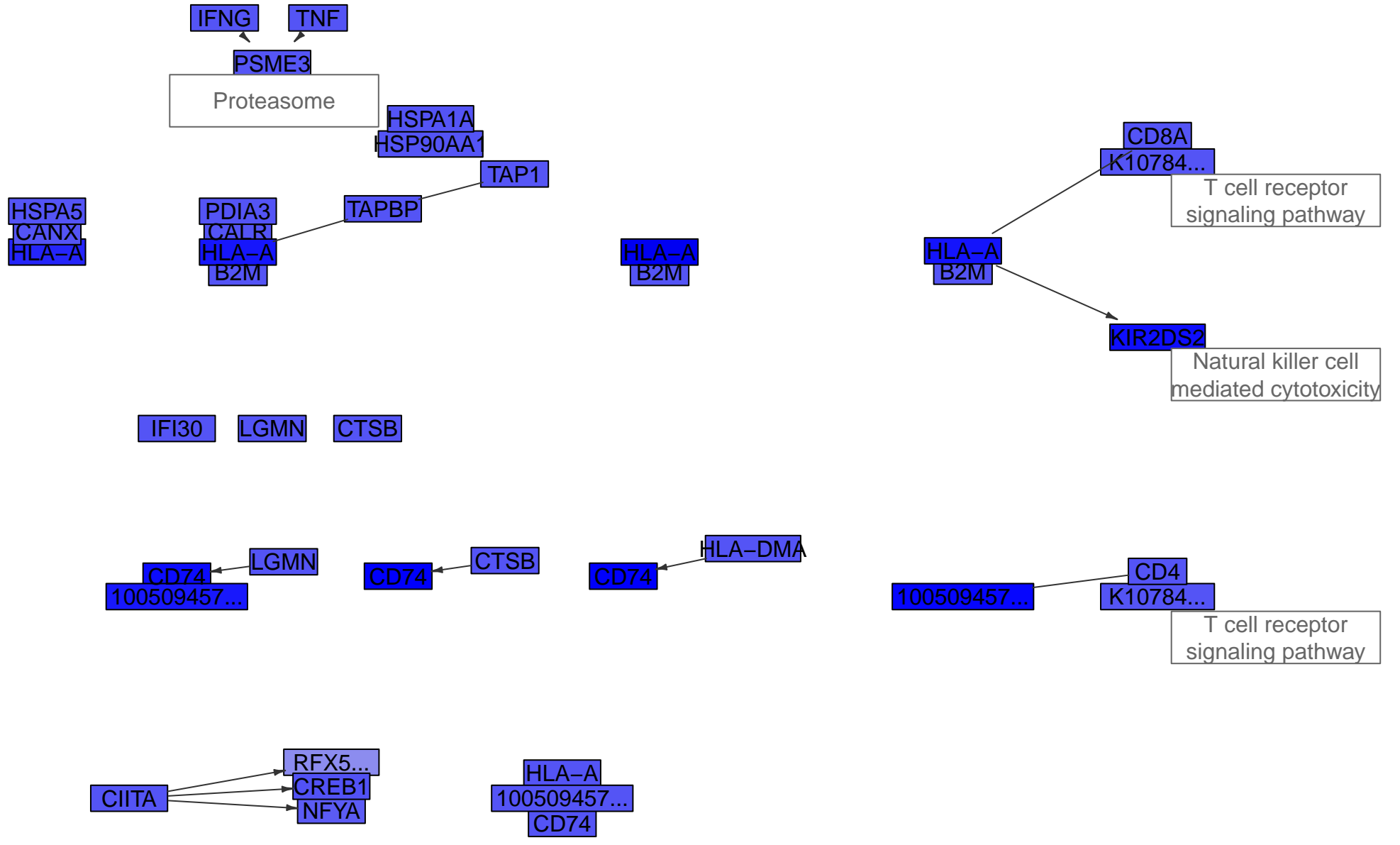
Antigen processing and presentation  
MPI-001



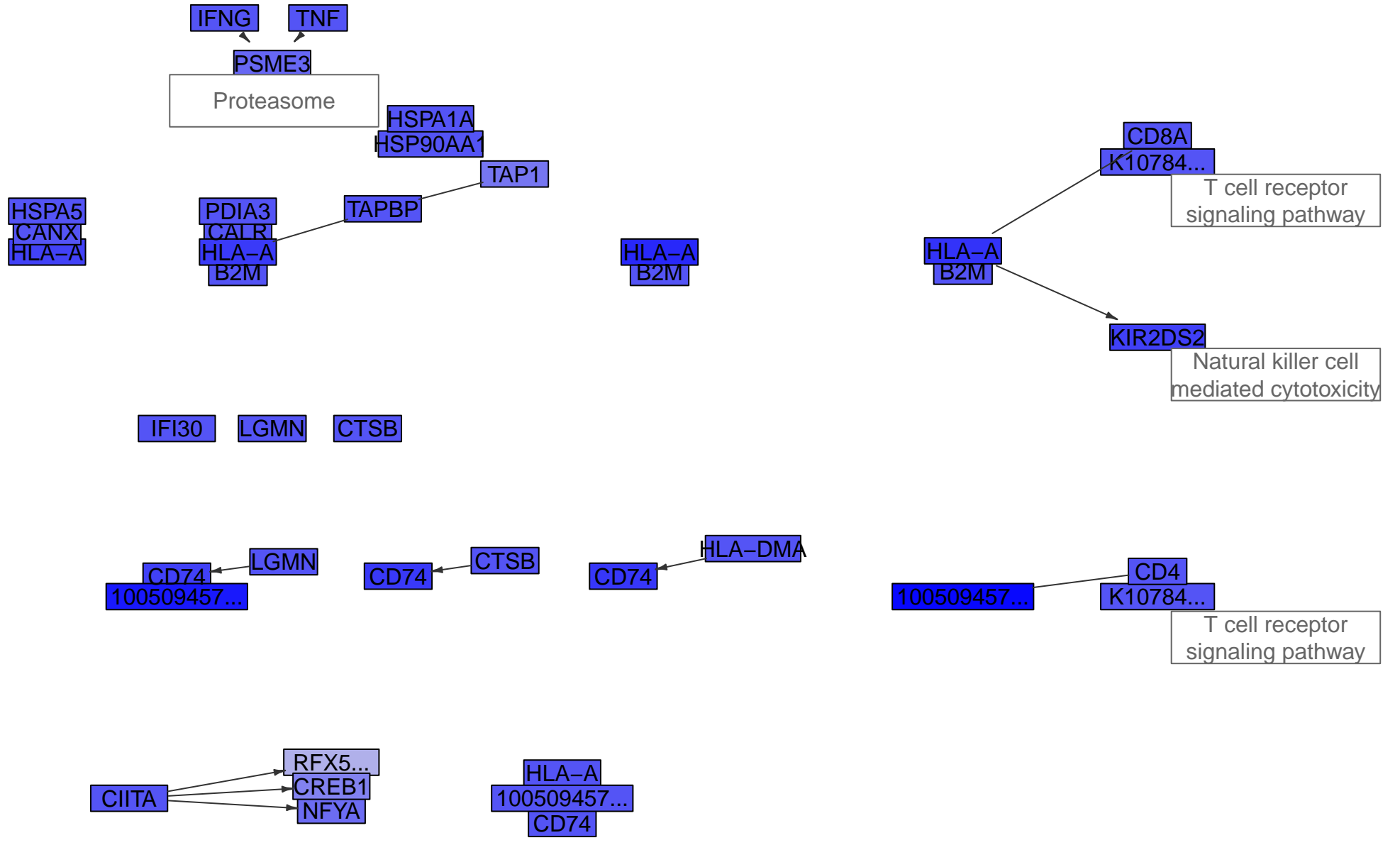
Antigen processing and presentation  
MPI-002



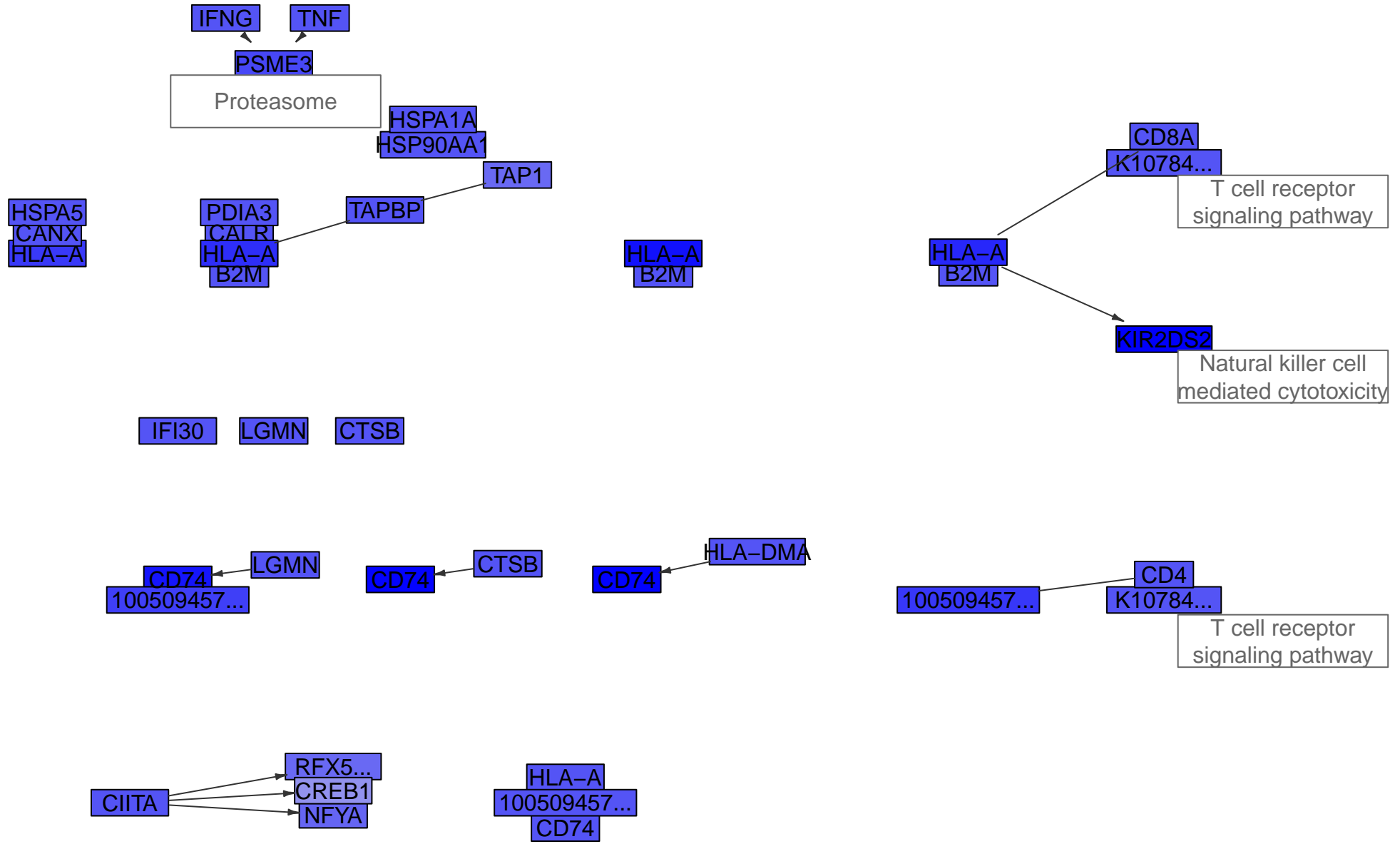
Antigen processing and presentation  
MPI-003



Antigen processing and presentation  
MPI-005

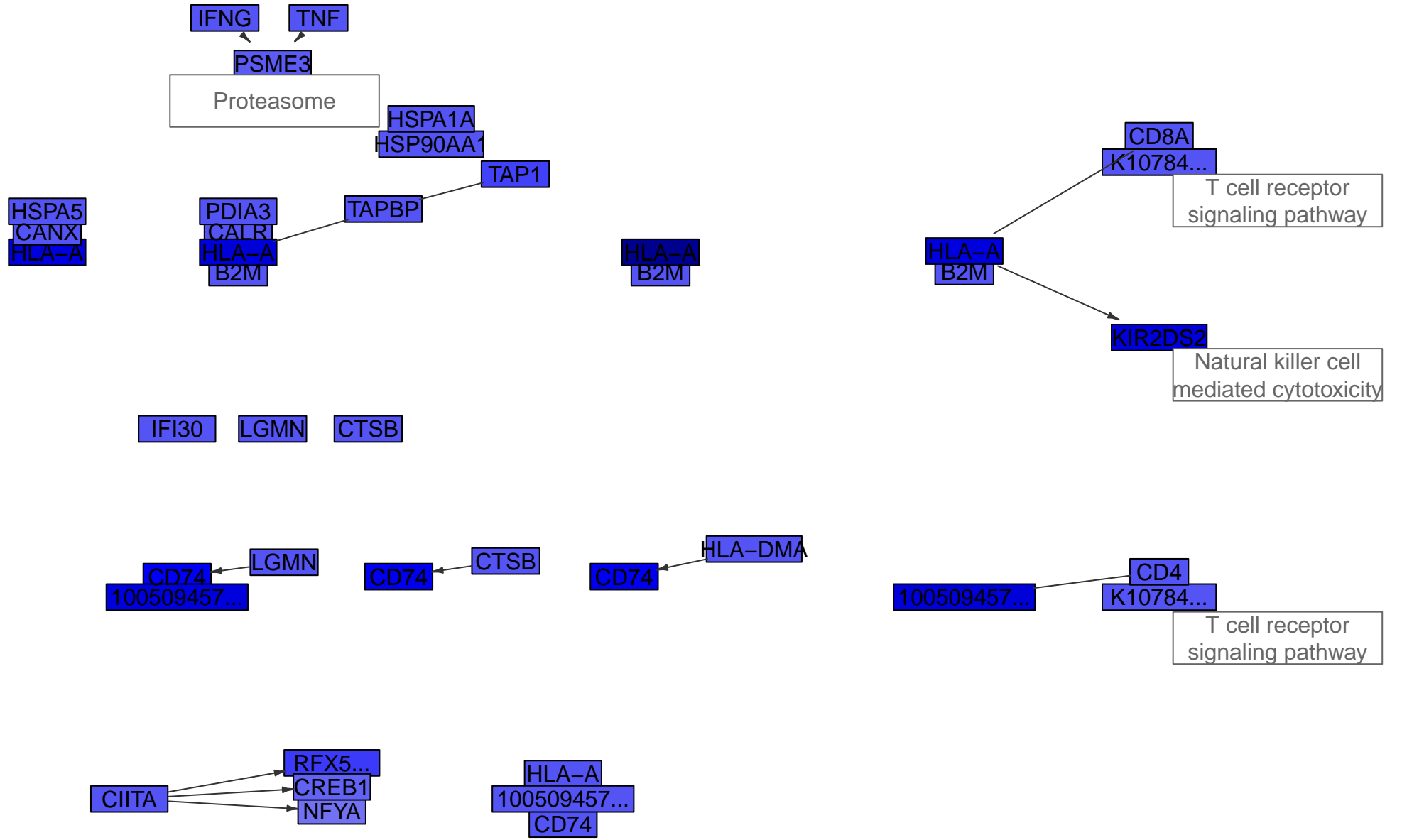


Antigen processing and presentation  
MPI-006

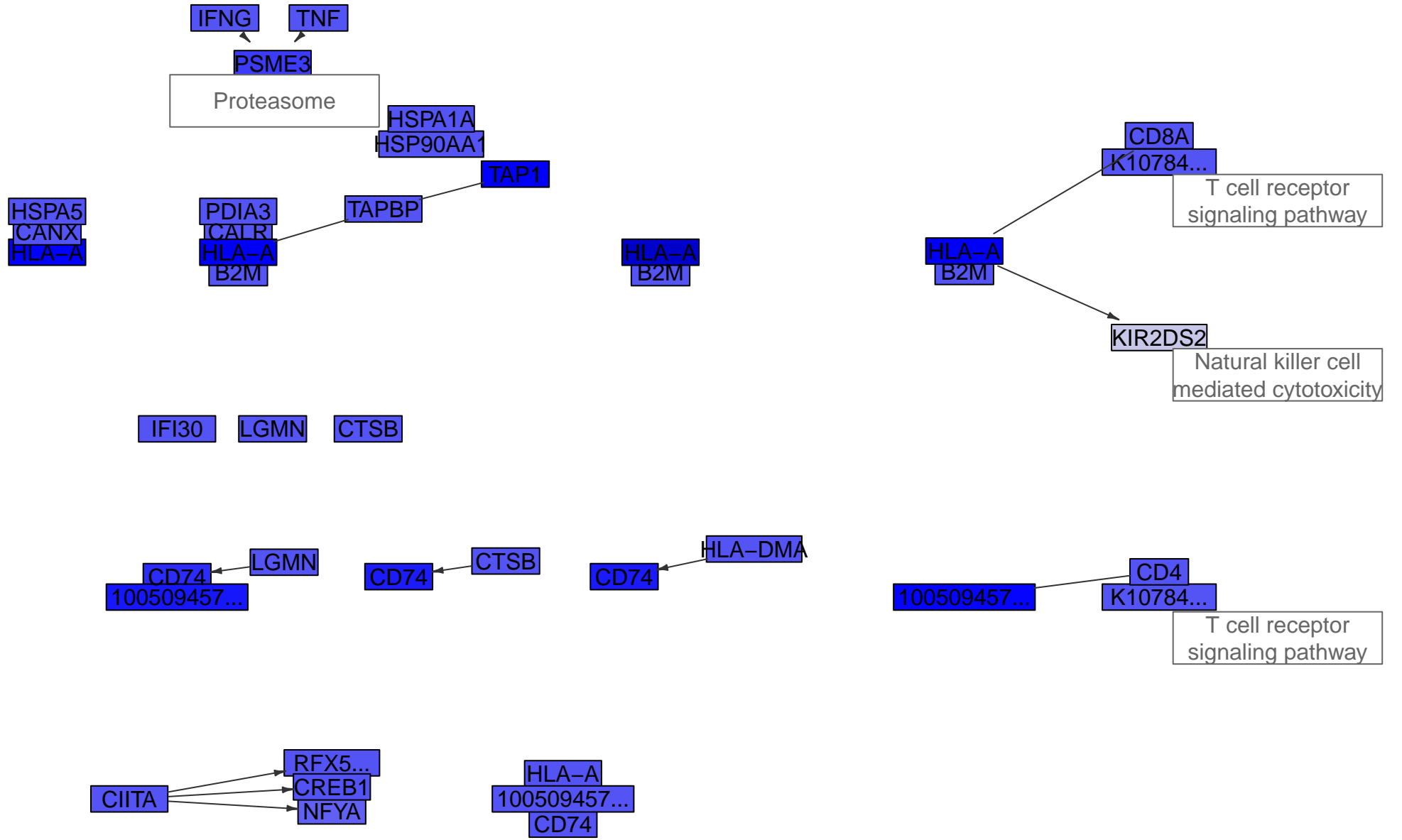




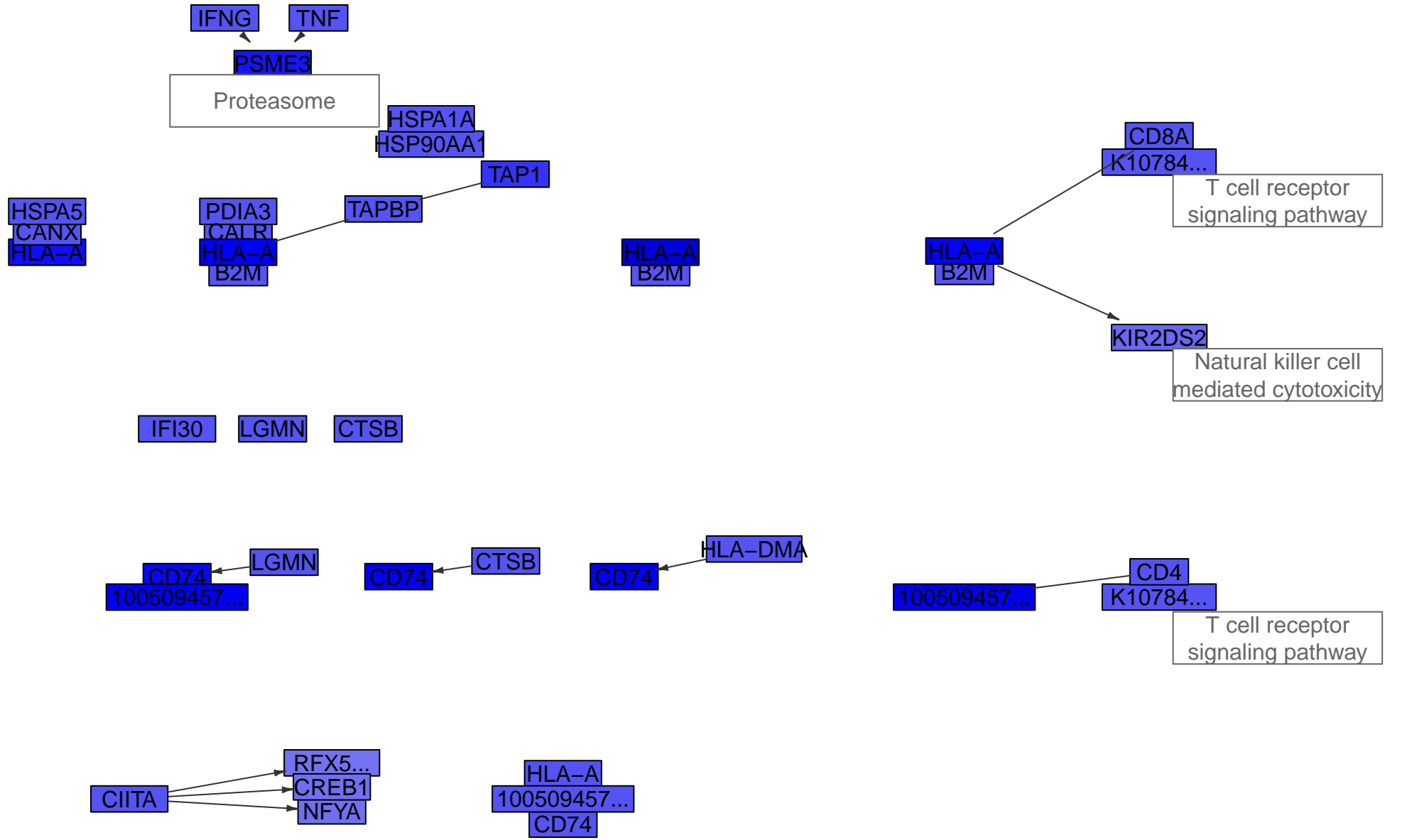
Antigen processing and presentation  
MPI-016



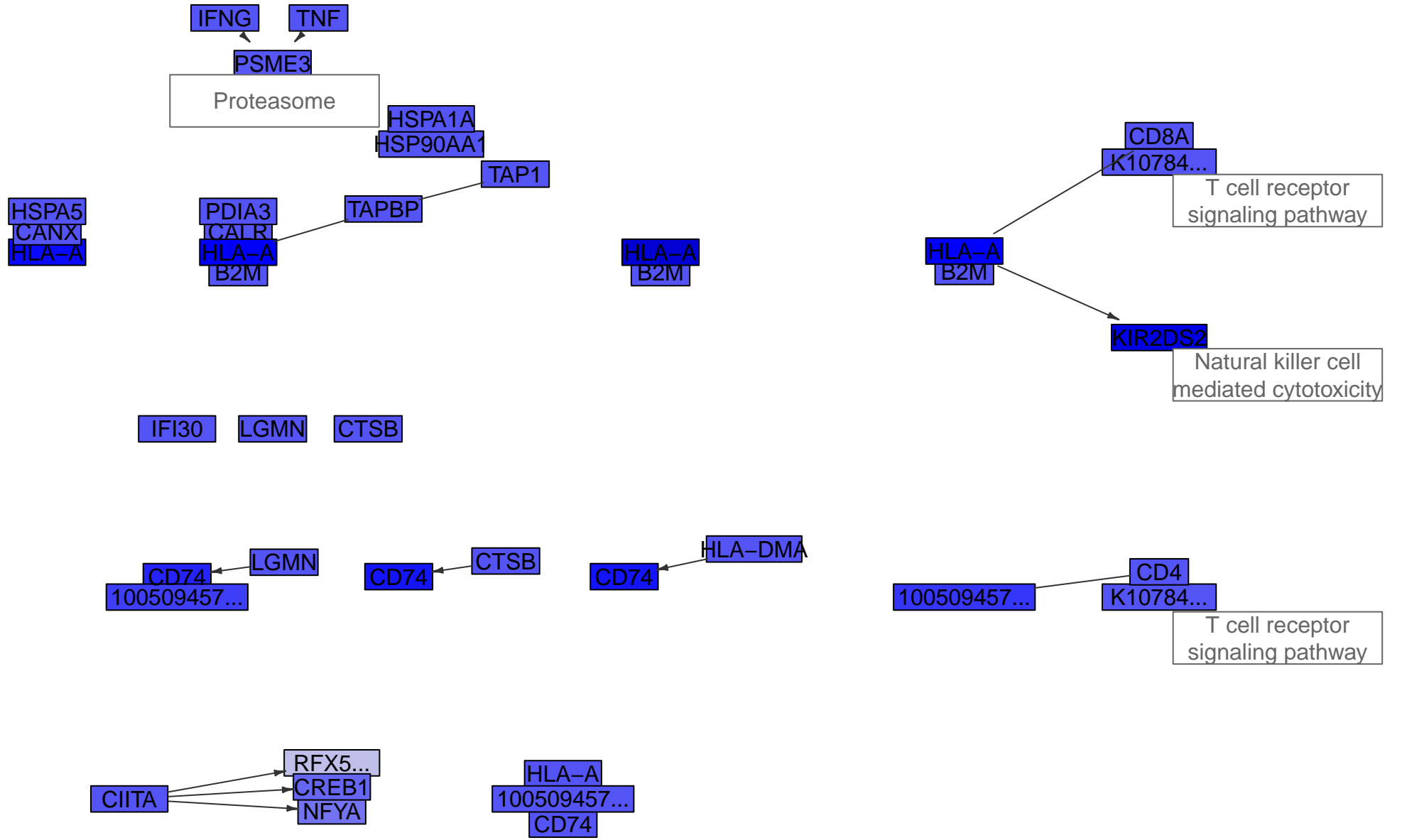
Antigen processing and presentation  
MPI-017



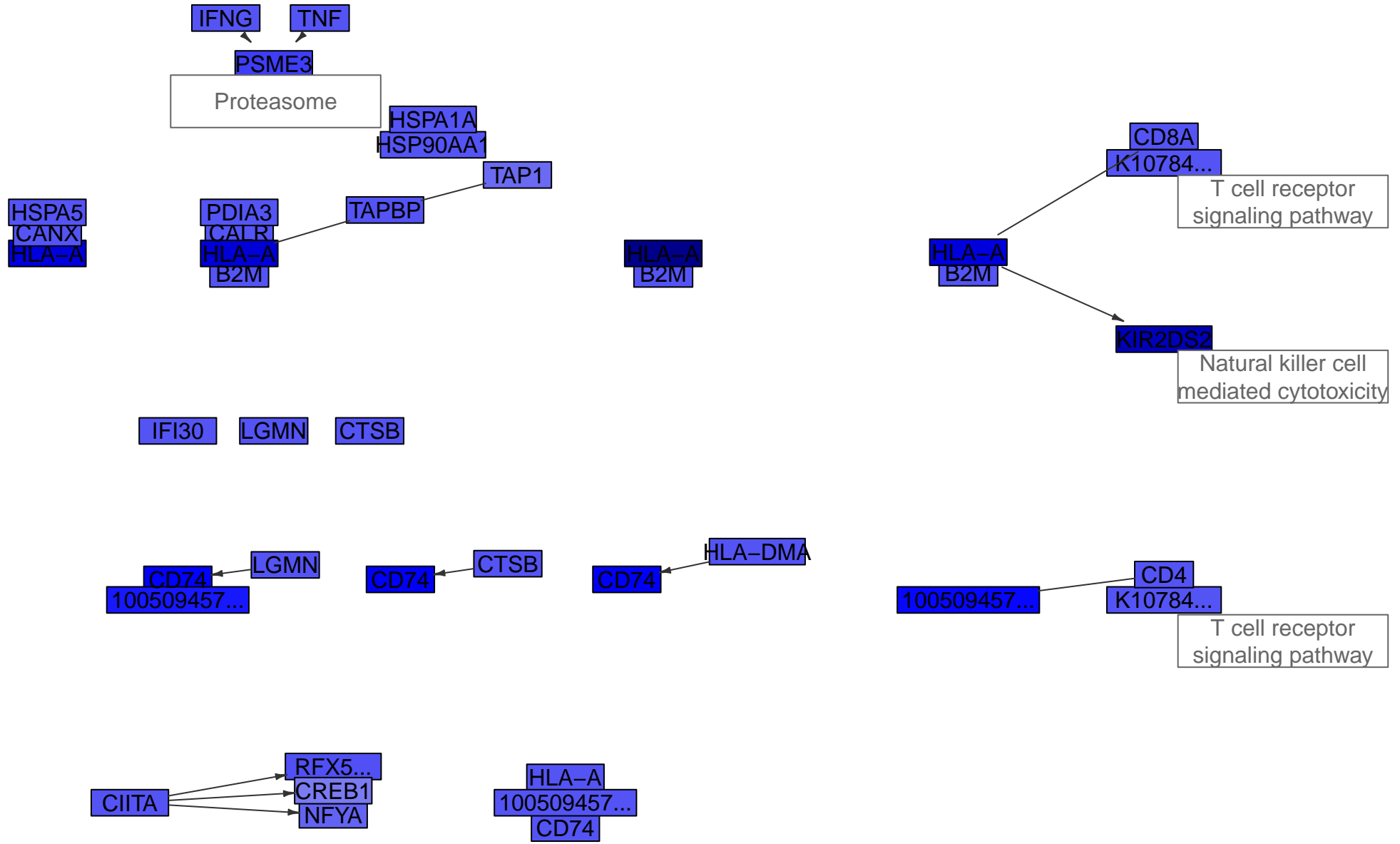
Antigen processing and presentation  
MPI-018



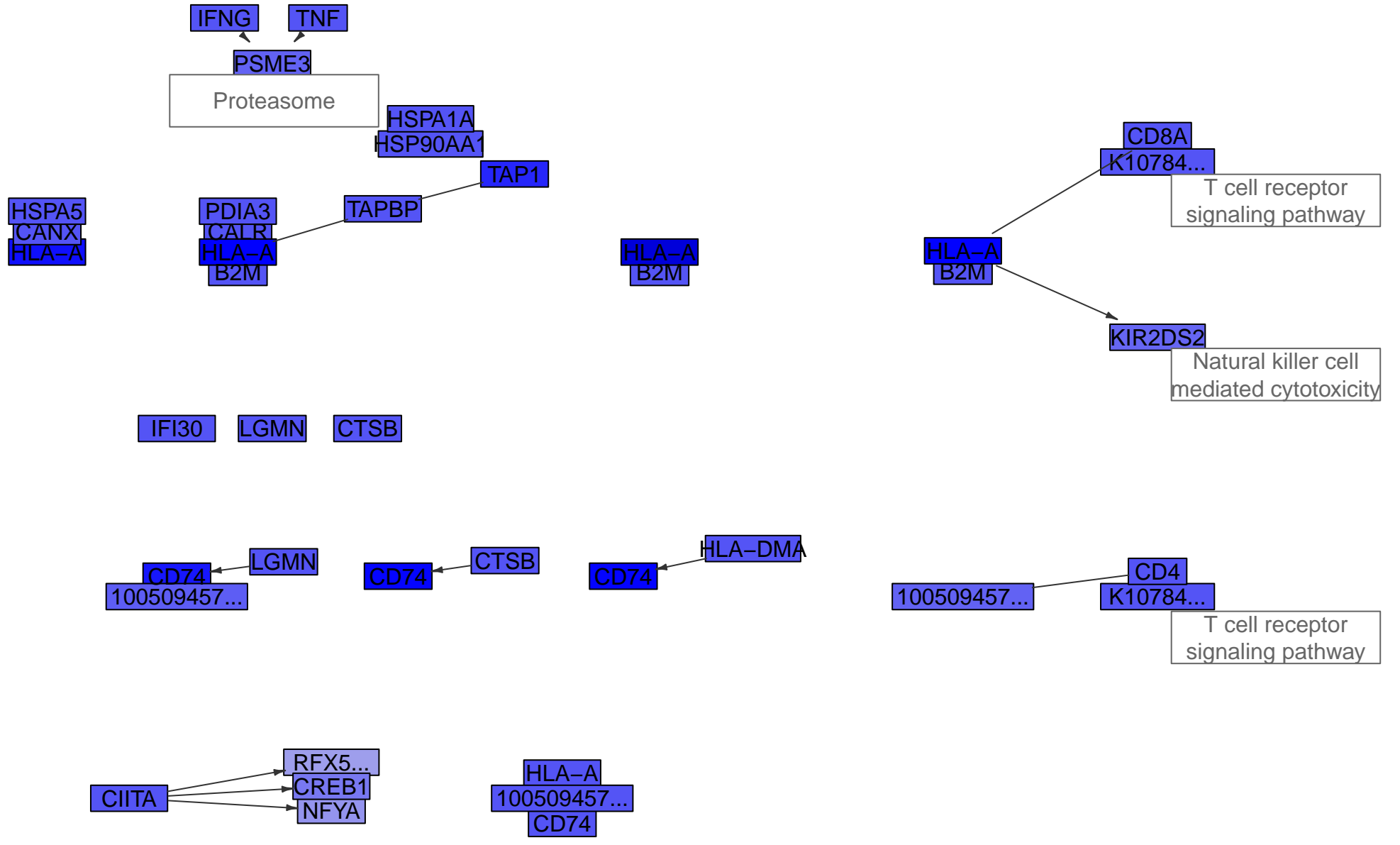
Antigen processing and presentation  
MPI-027



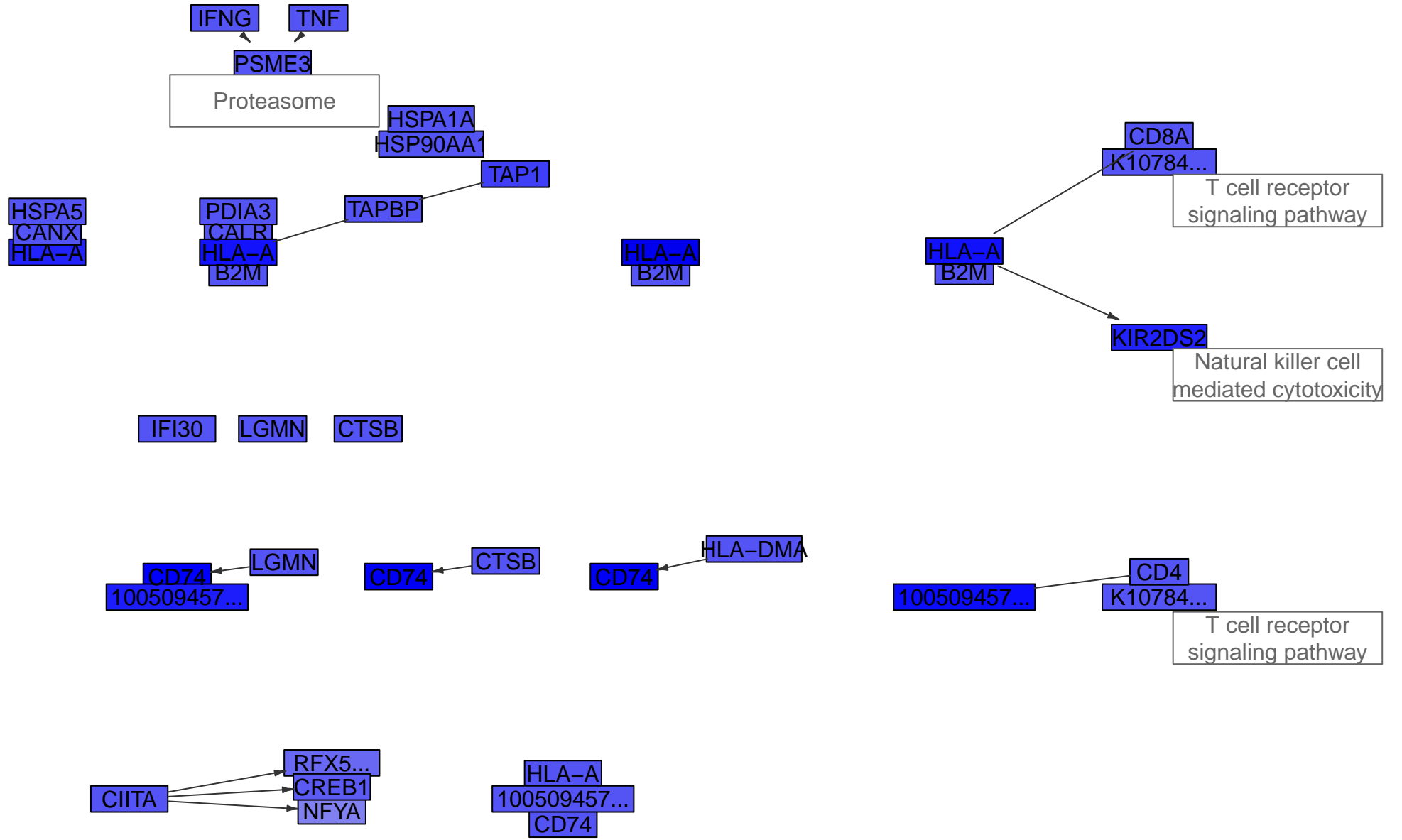
Antigen processing and presentation  
MPI-028



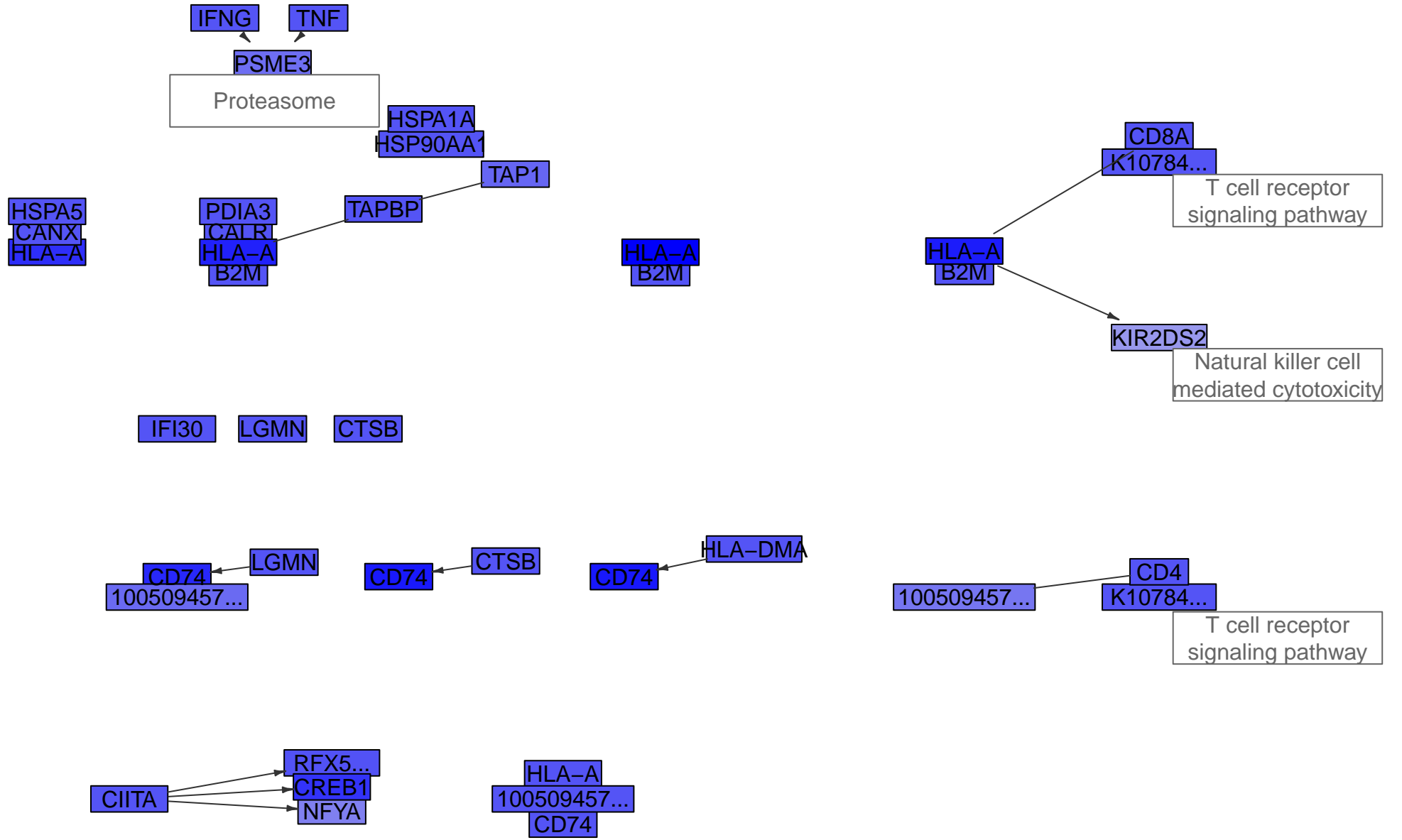
Antigen processing and presentation  
MPI-032



Antigen processing and presentation  
MPI-033

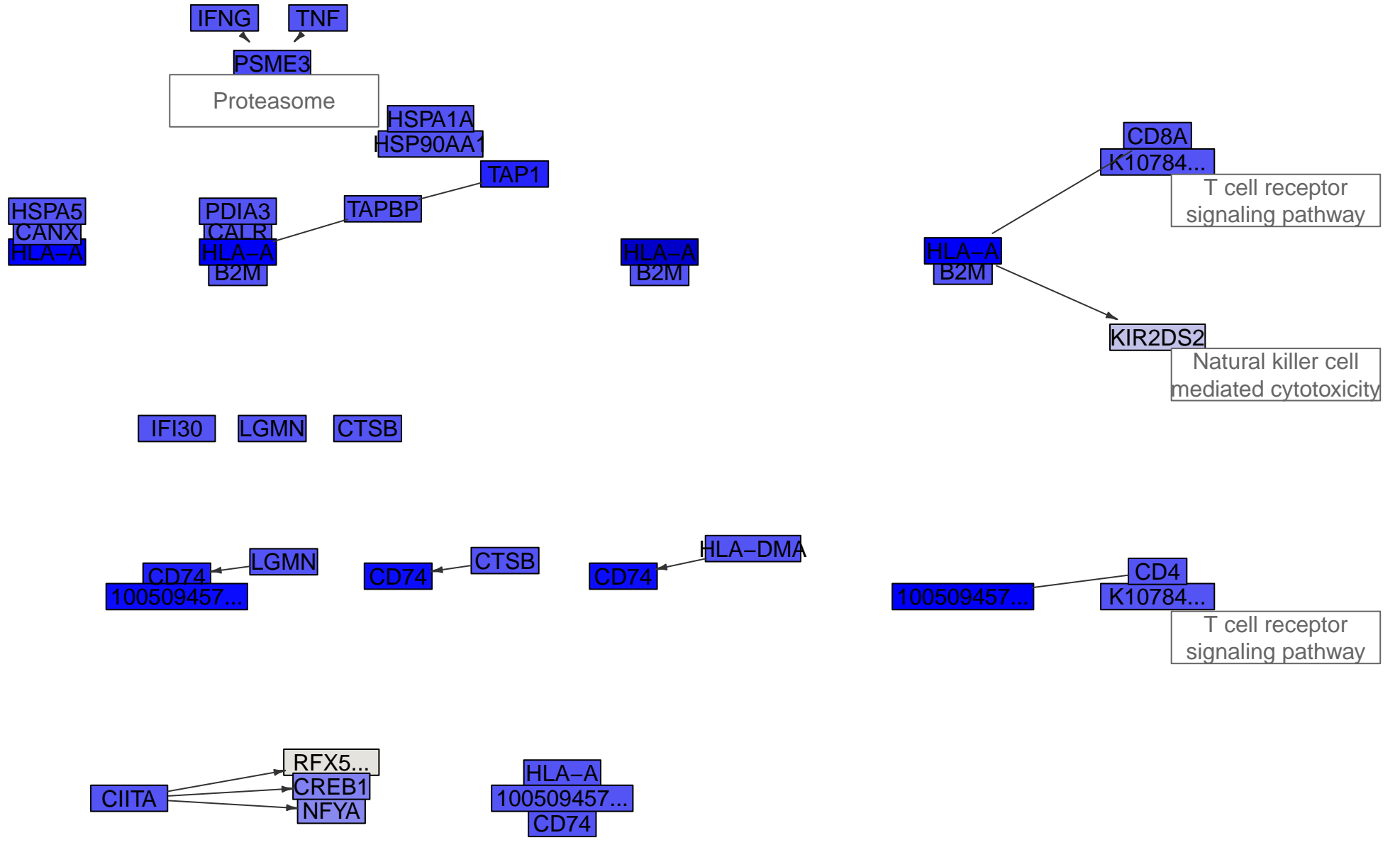


Antigen processing and presentation  
MPI-034

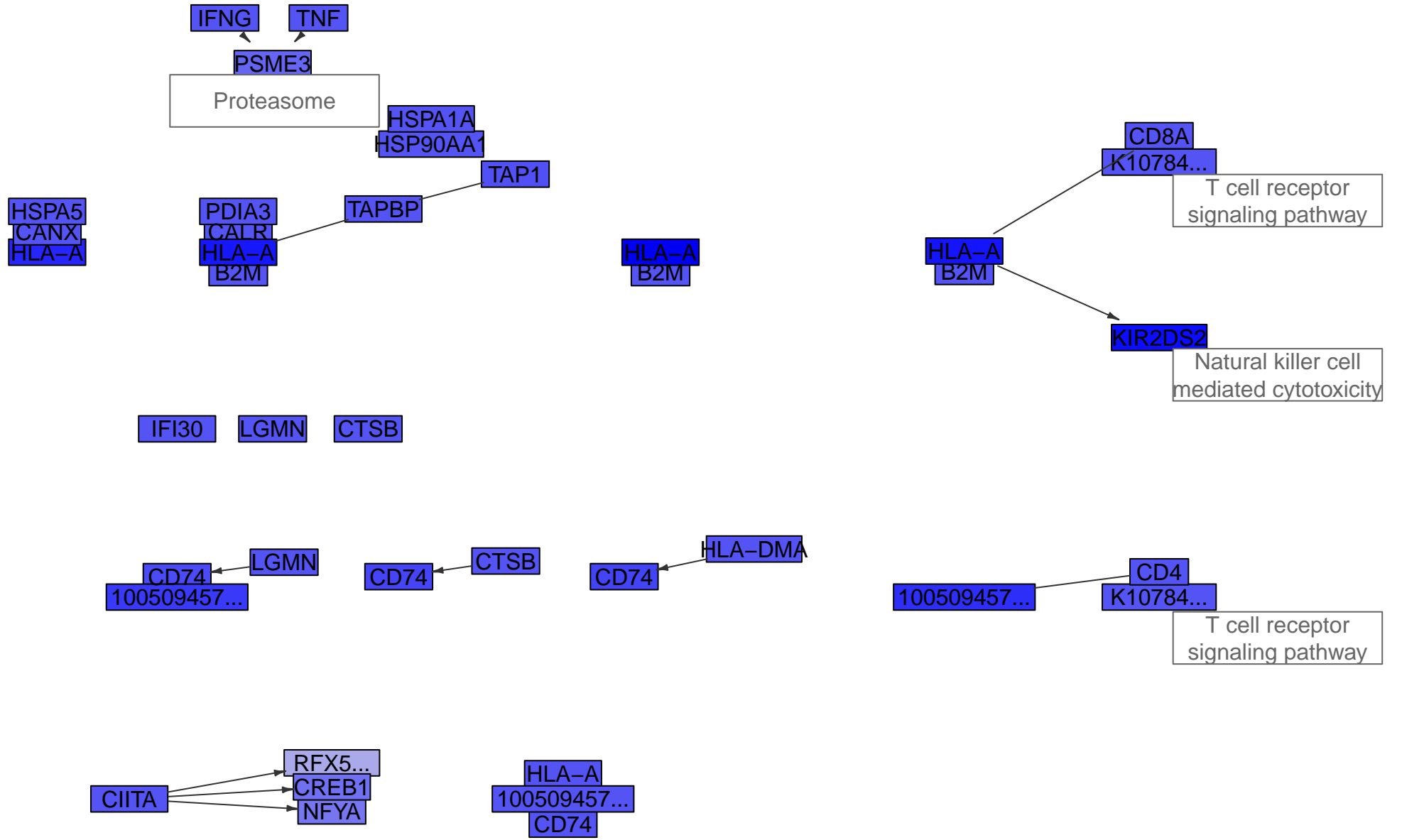




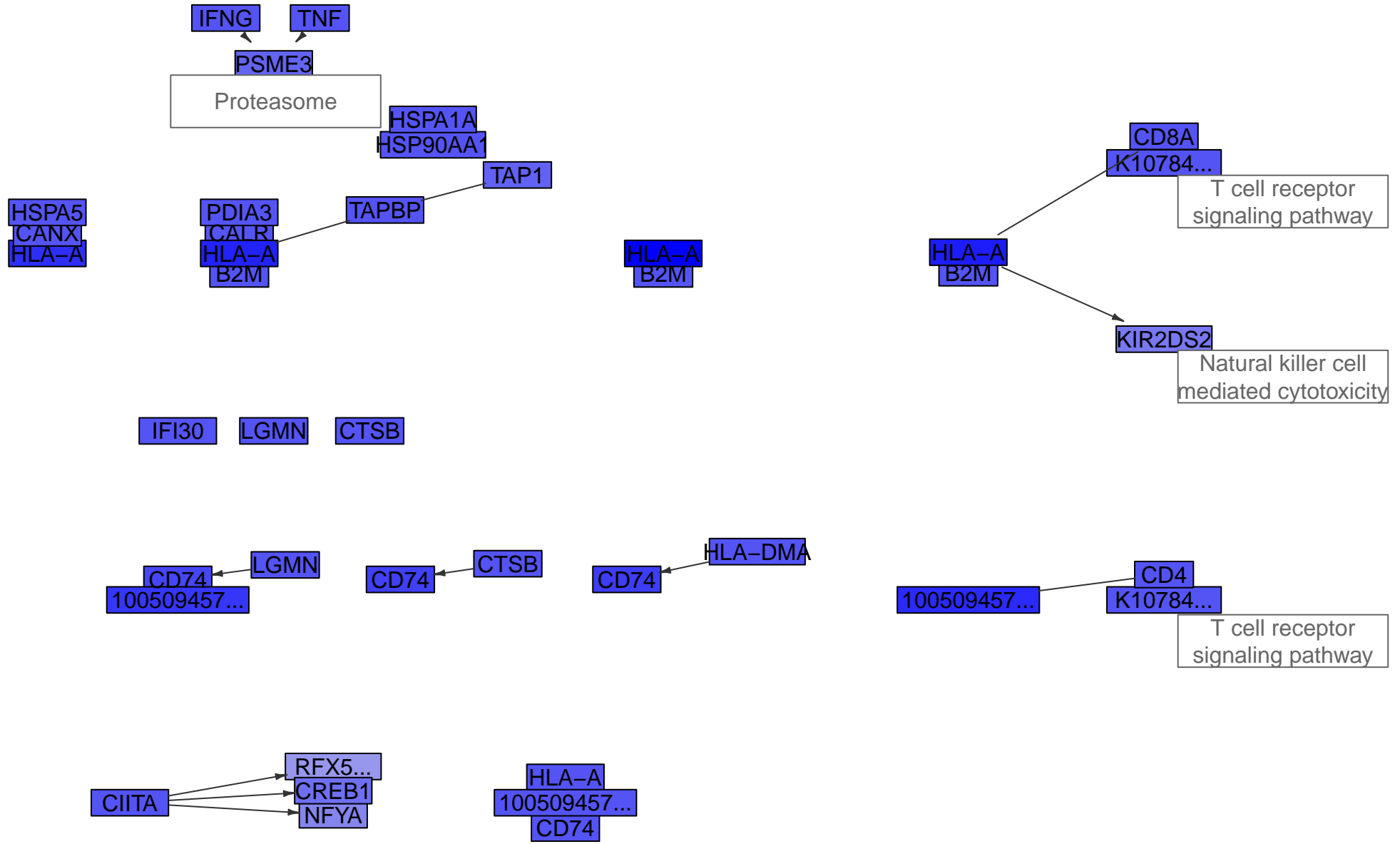
Antigen processing and presentation  
MPI-043



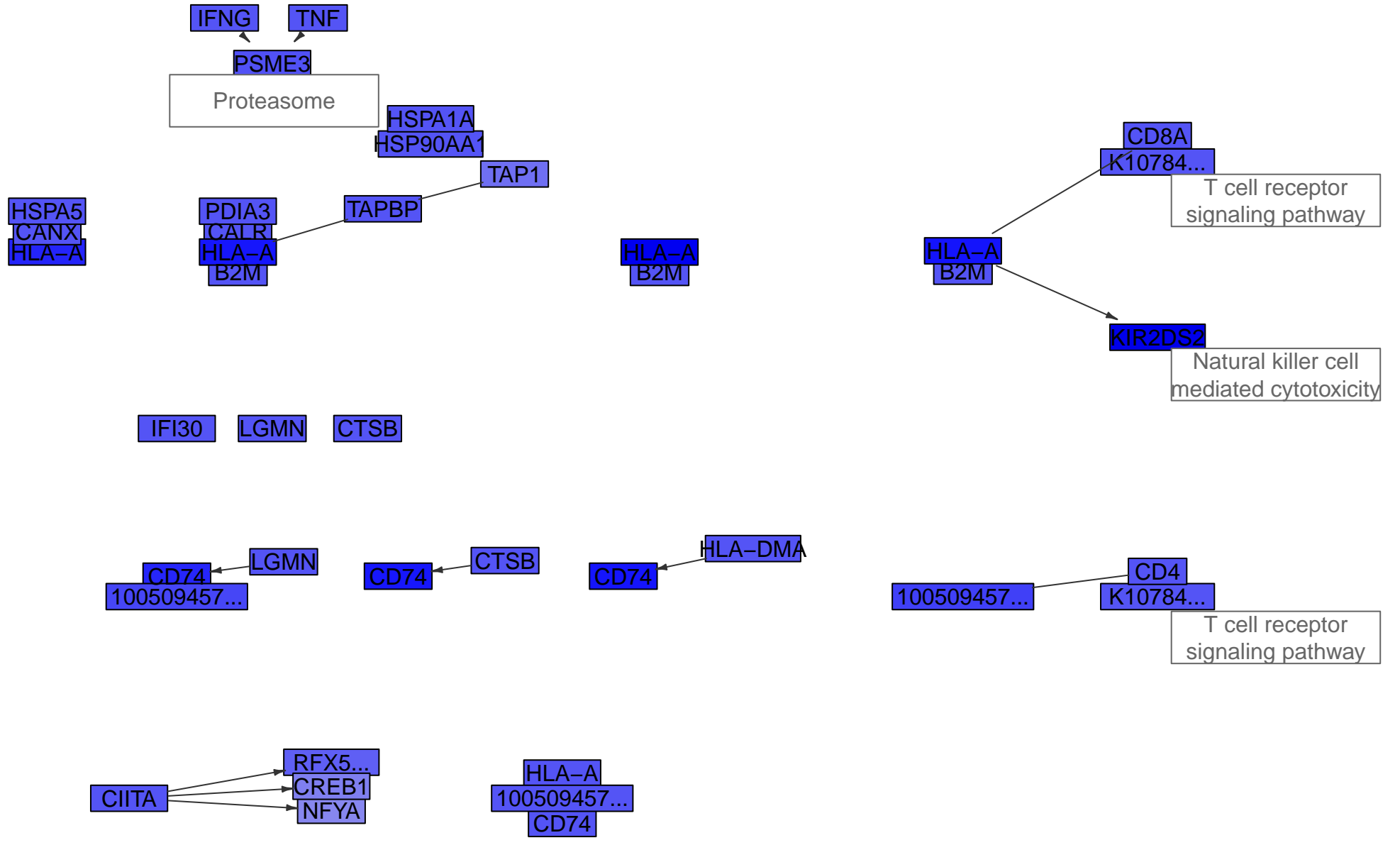
Antigen processing and presentation  
MPI-044



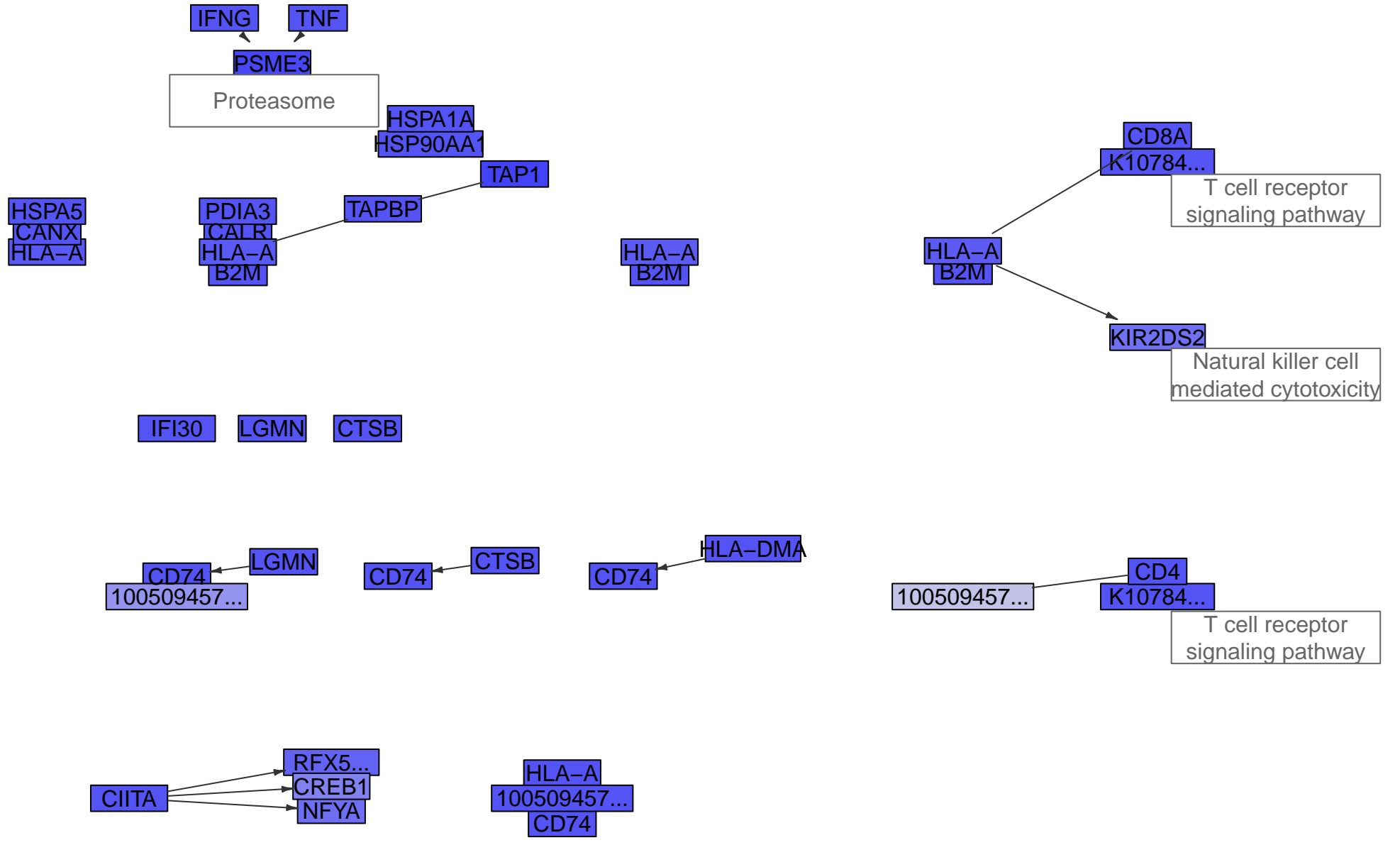
Antigen processing and presentation  
MPI-048



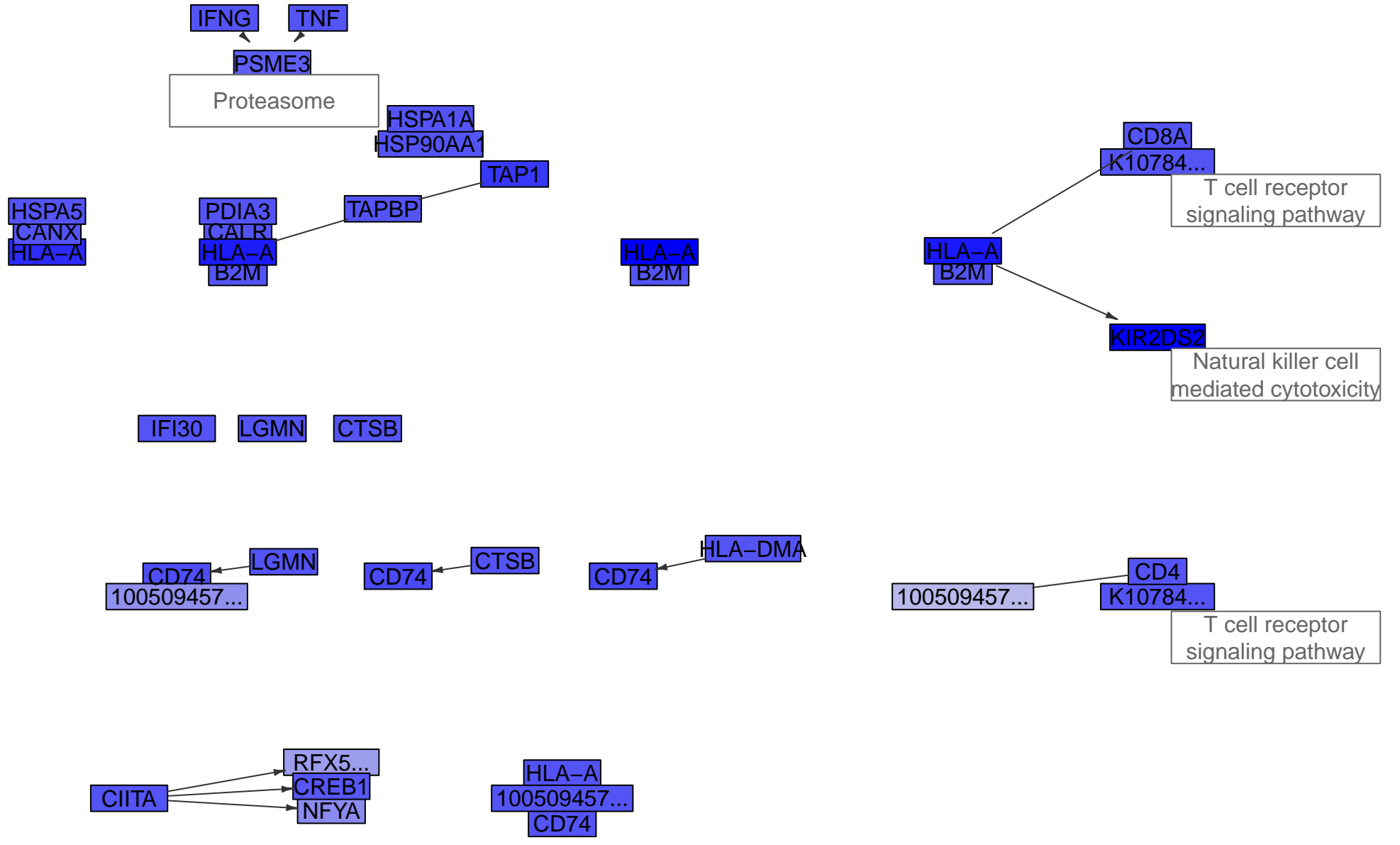
Antigen processing and presentation  
MPI-055



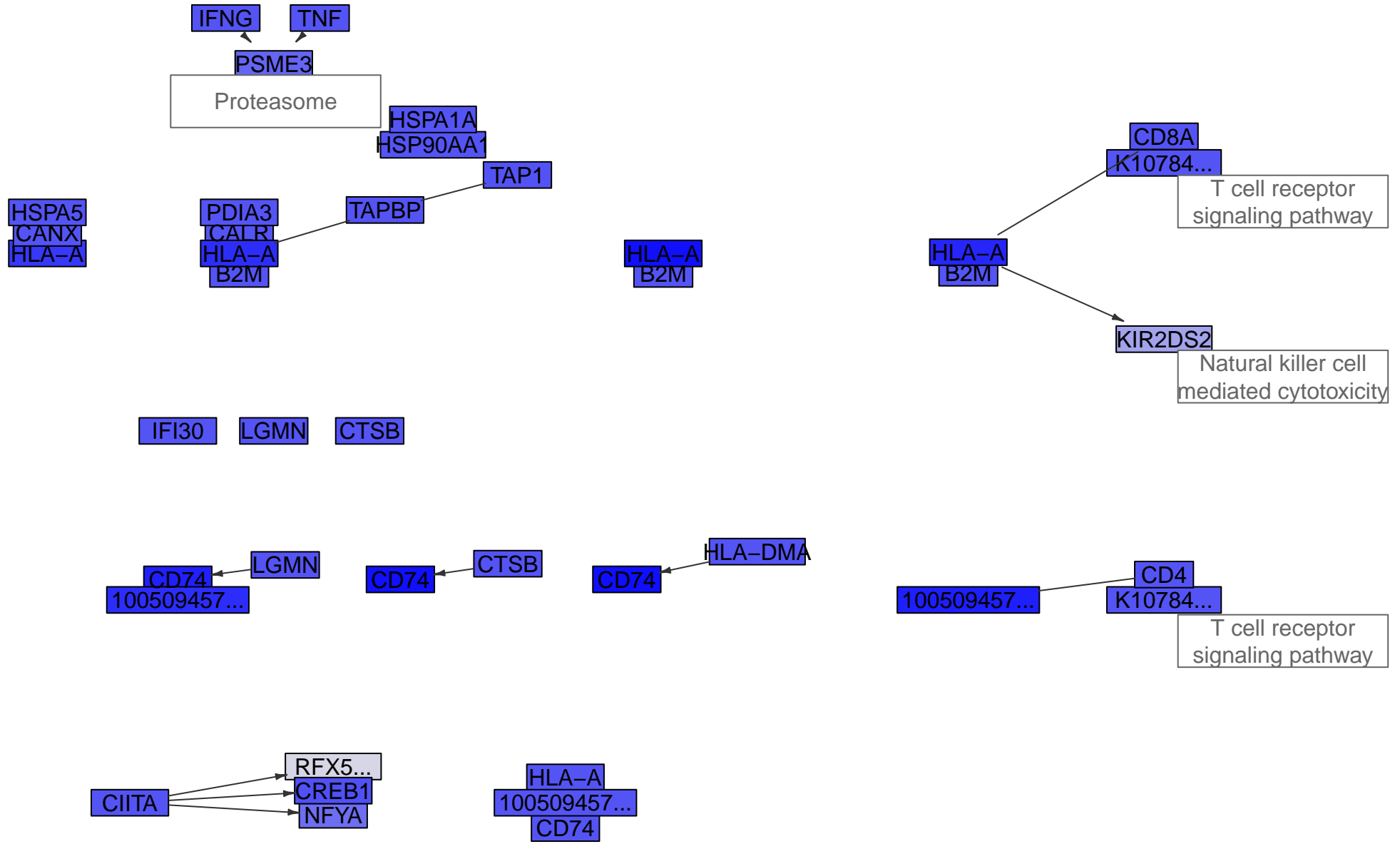
Antigen processing and presentation  
MPI-065



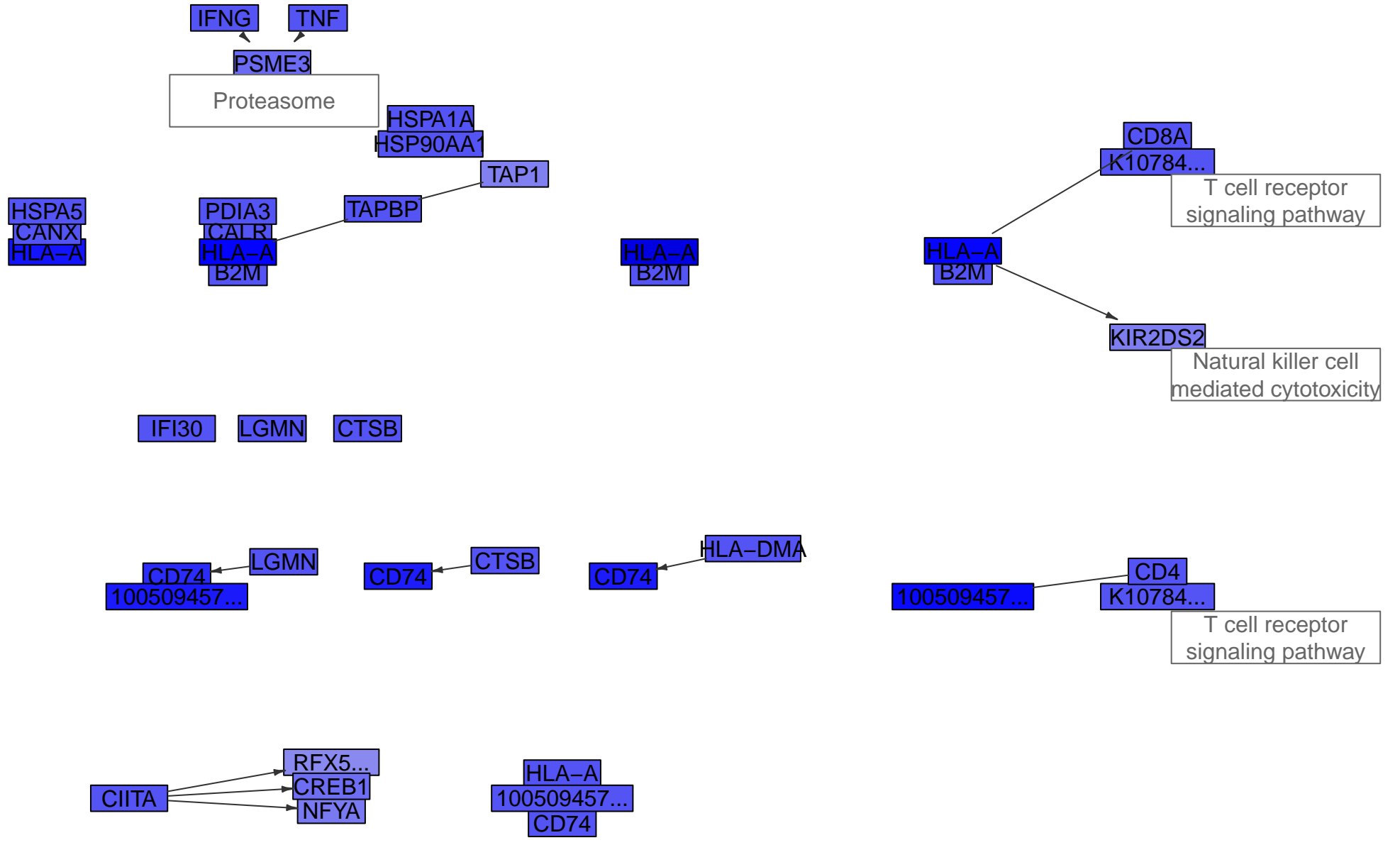
Antigen processing and presentation  
MPI-071



Antigen processing and presentation  
MPI-075

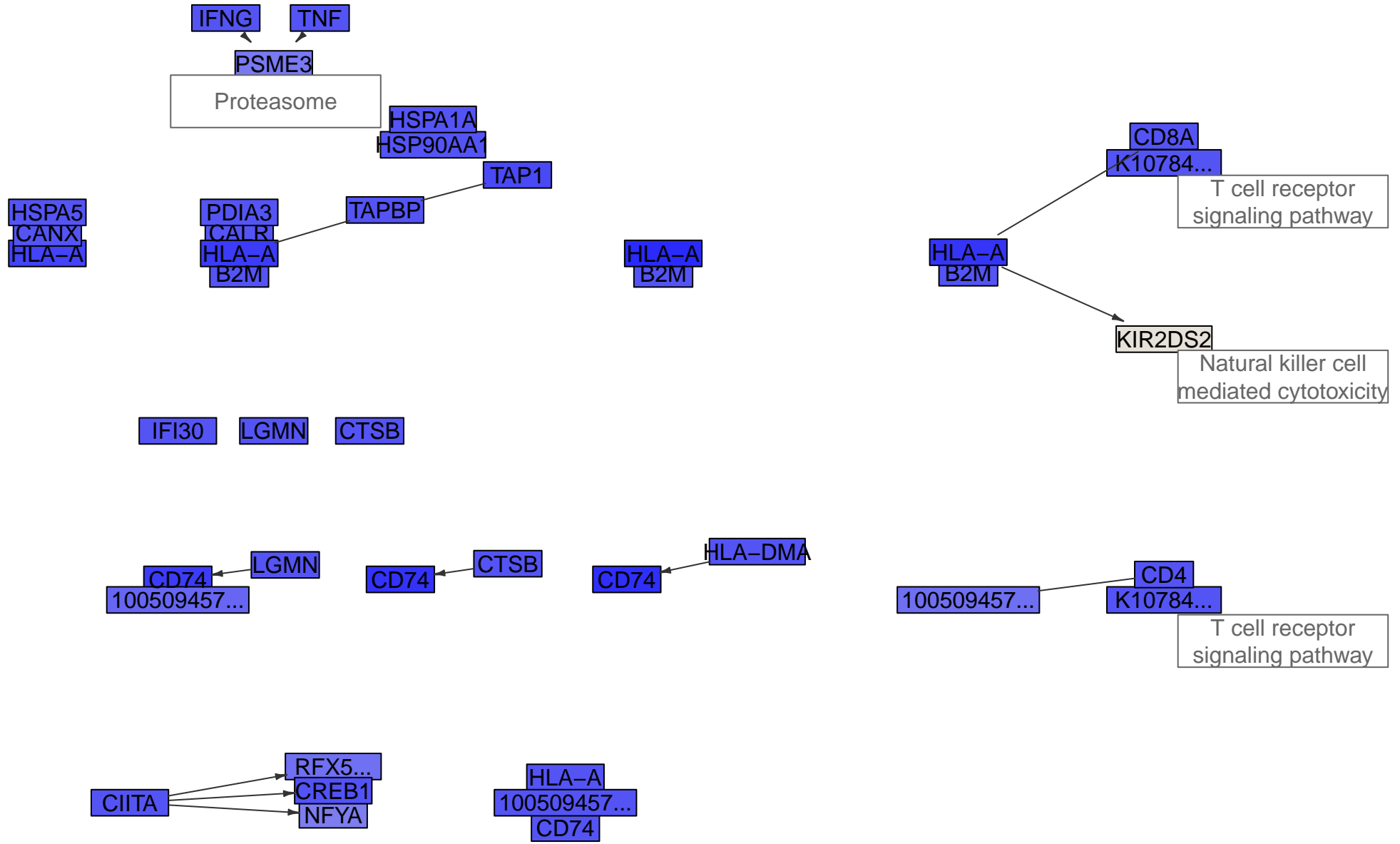


Antigen processing  
and presentation  
MPI-077

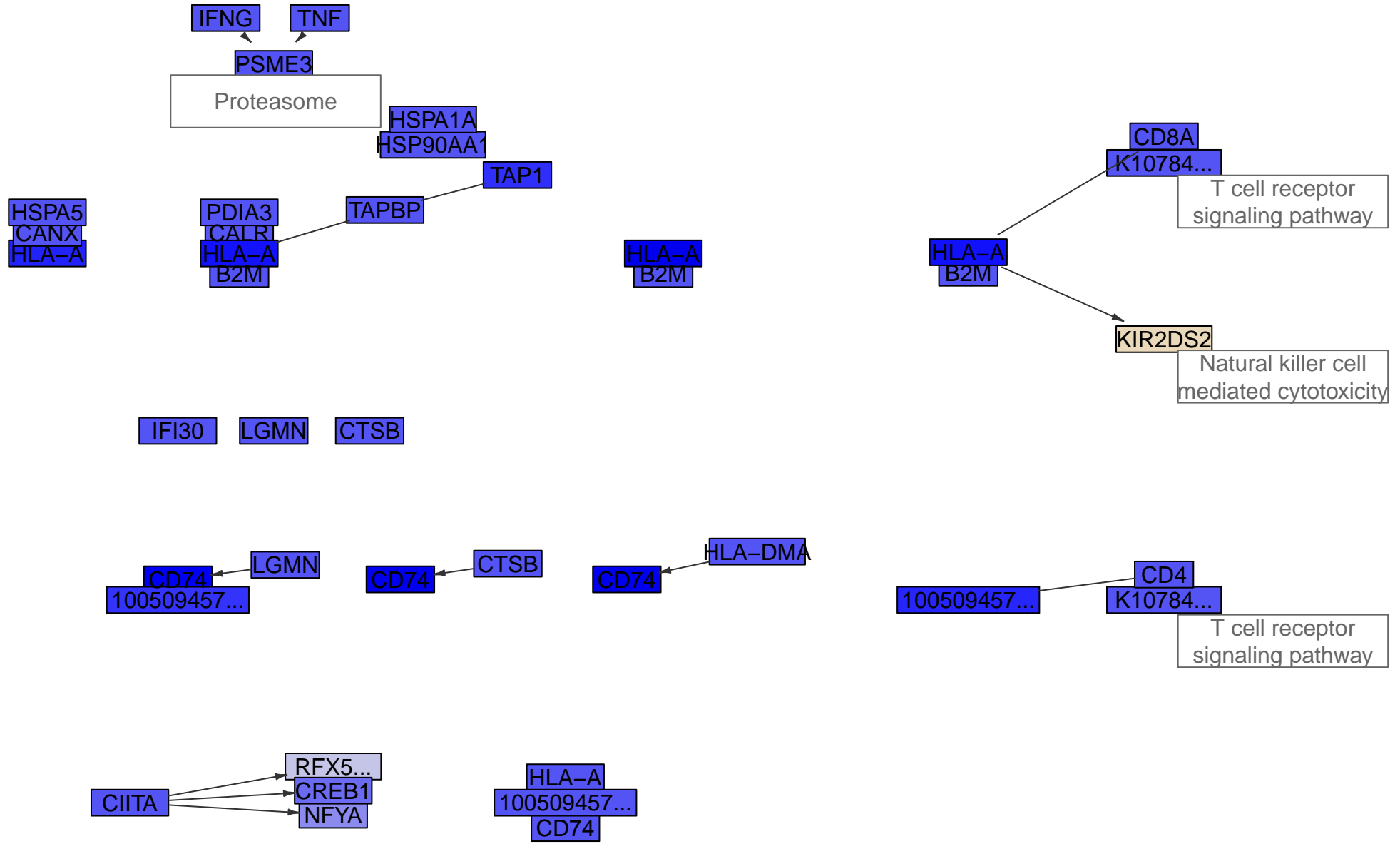




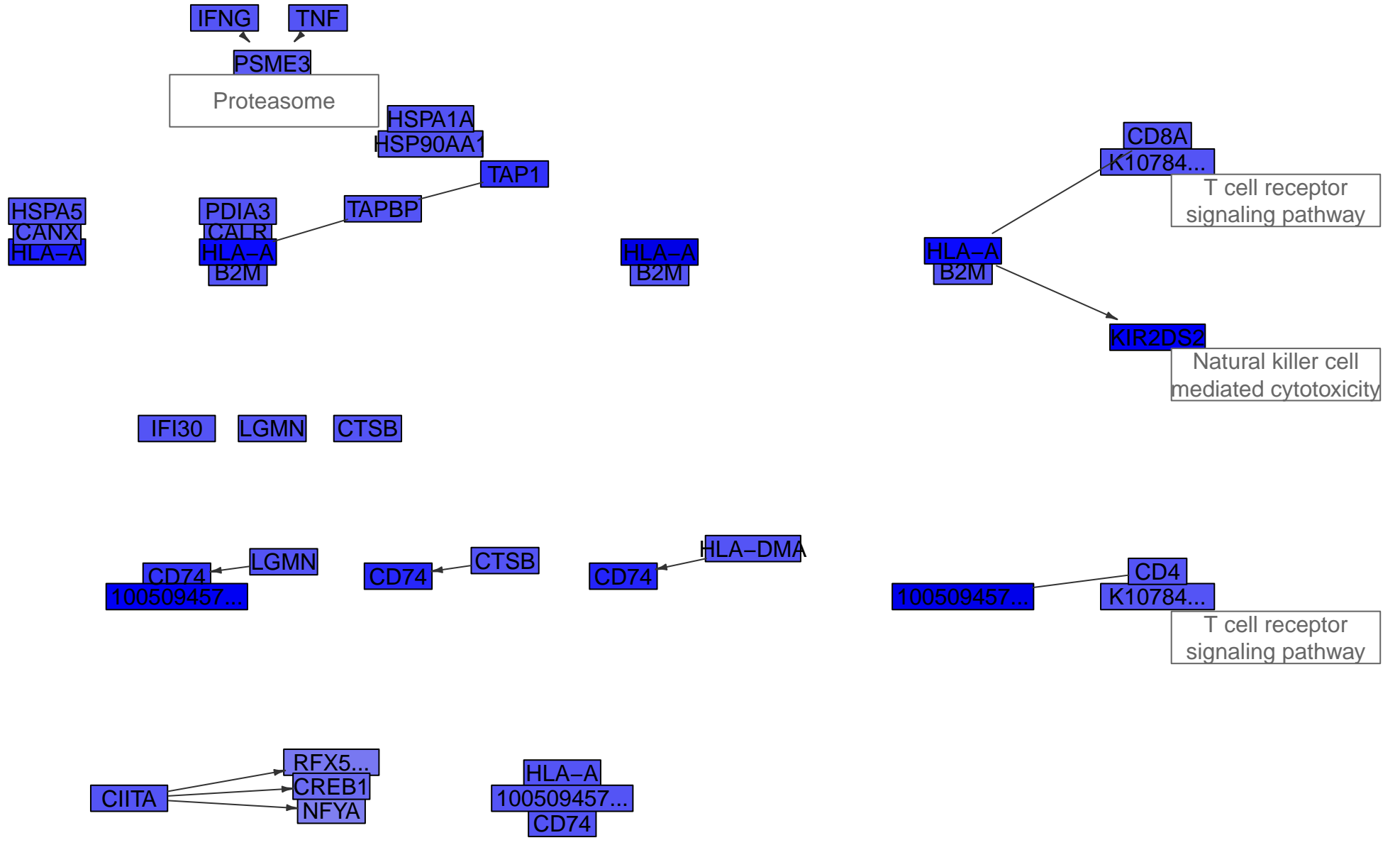
Antigen processing and presentation  
MPI-078



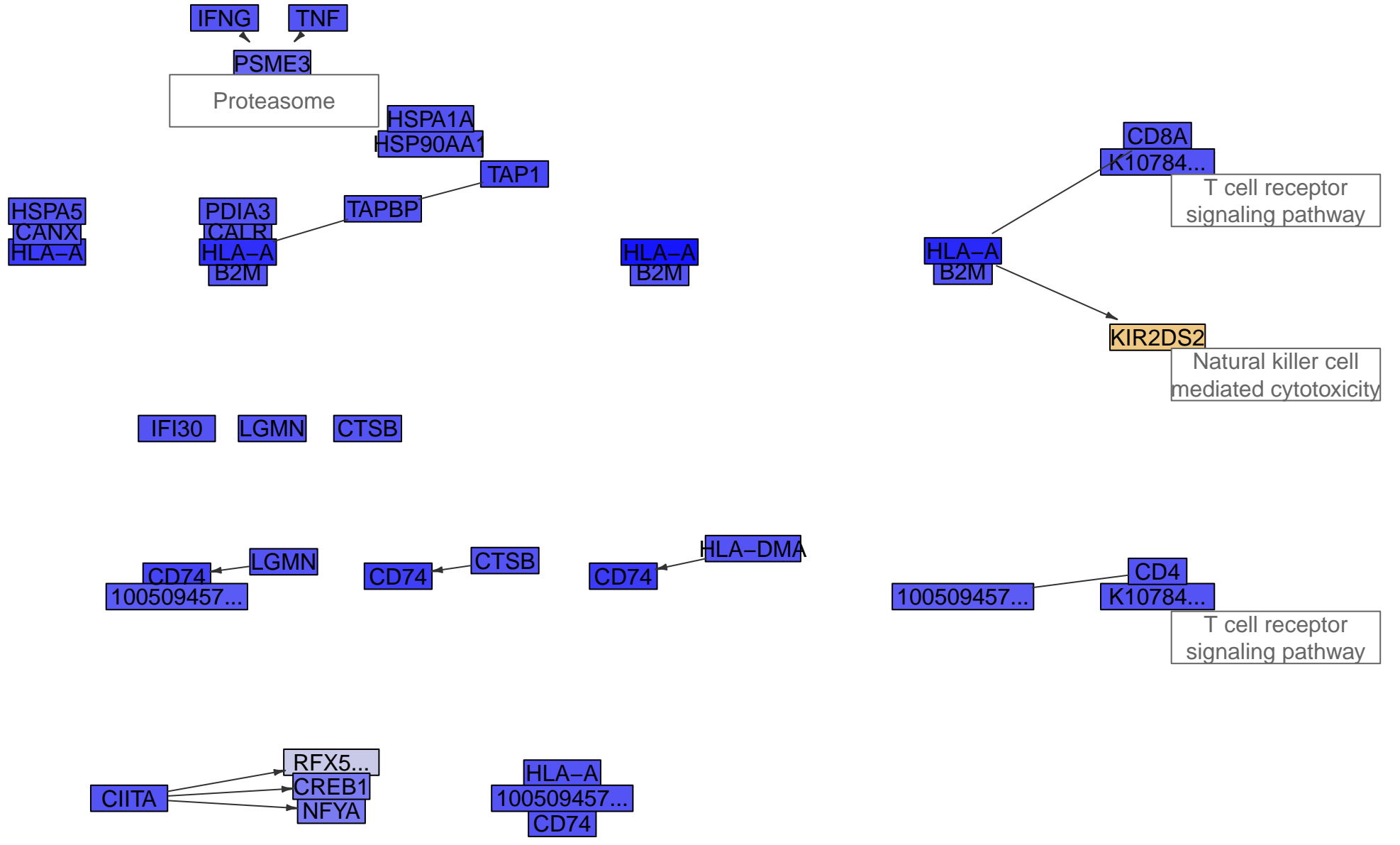
Antigen processing and presentation  
MPI-079



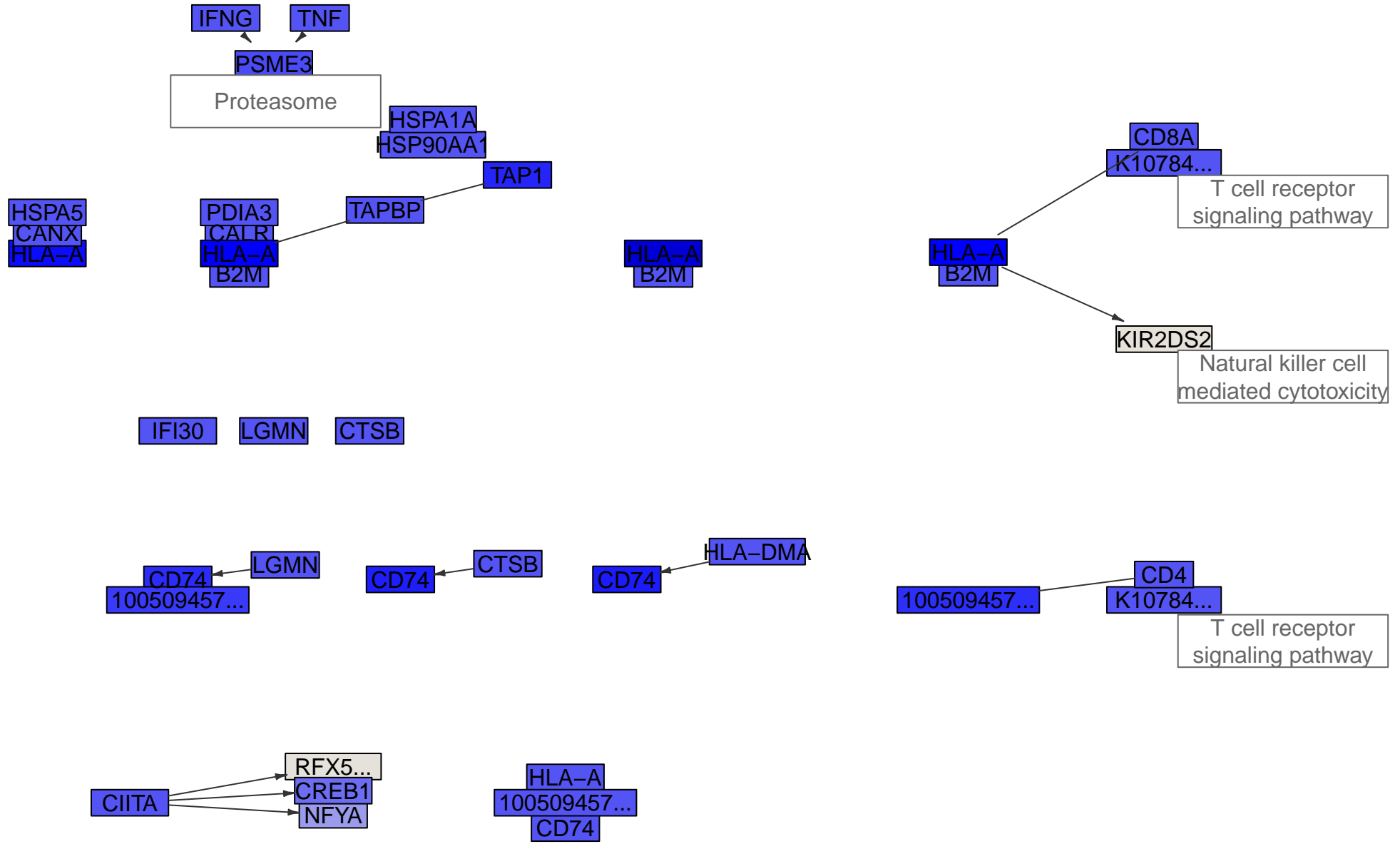
Antigen processing and presentation  
MPI-080



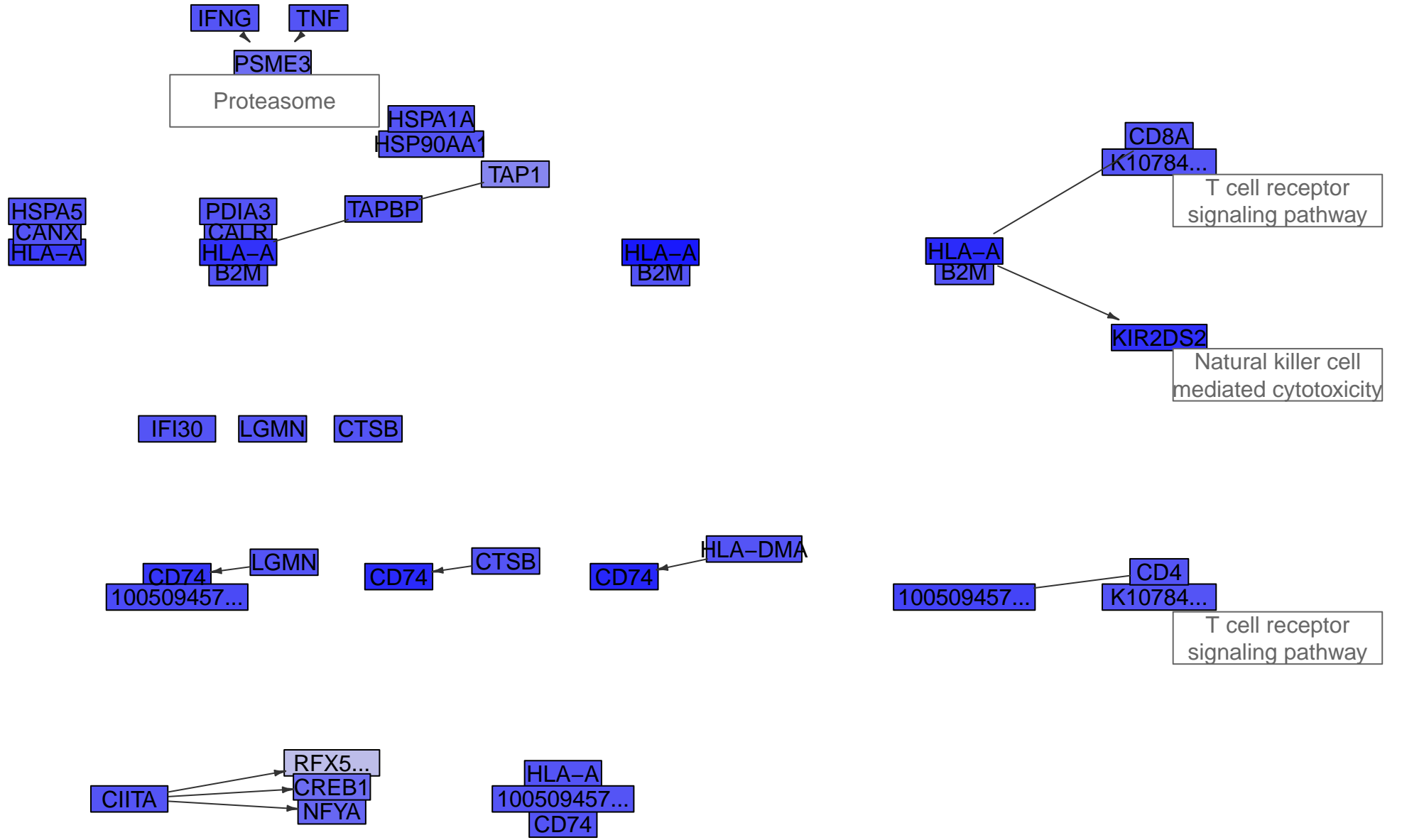
Antigen processing and presentation  
MPI-081



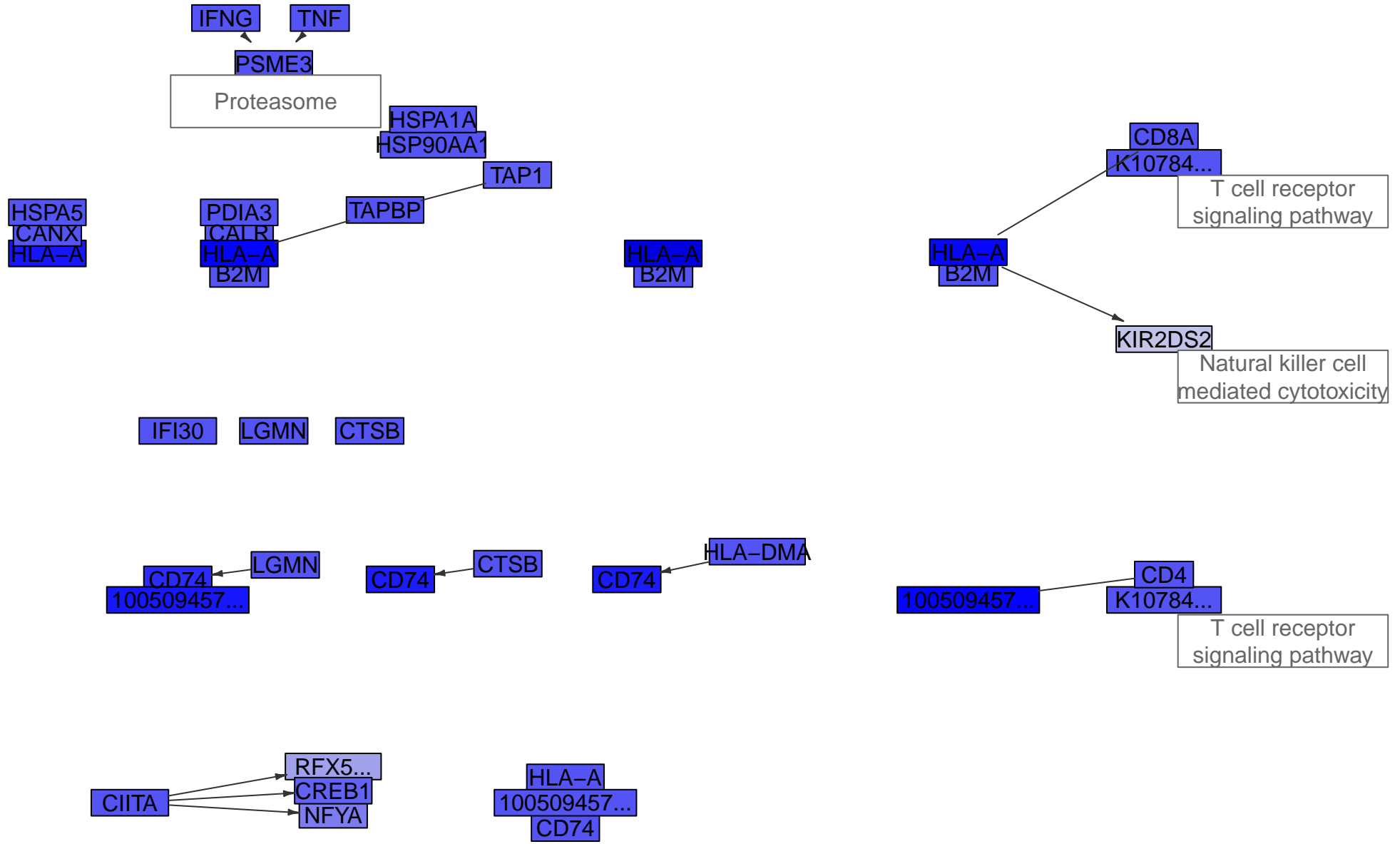
Antigen processing and presentation  
MPI-082



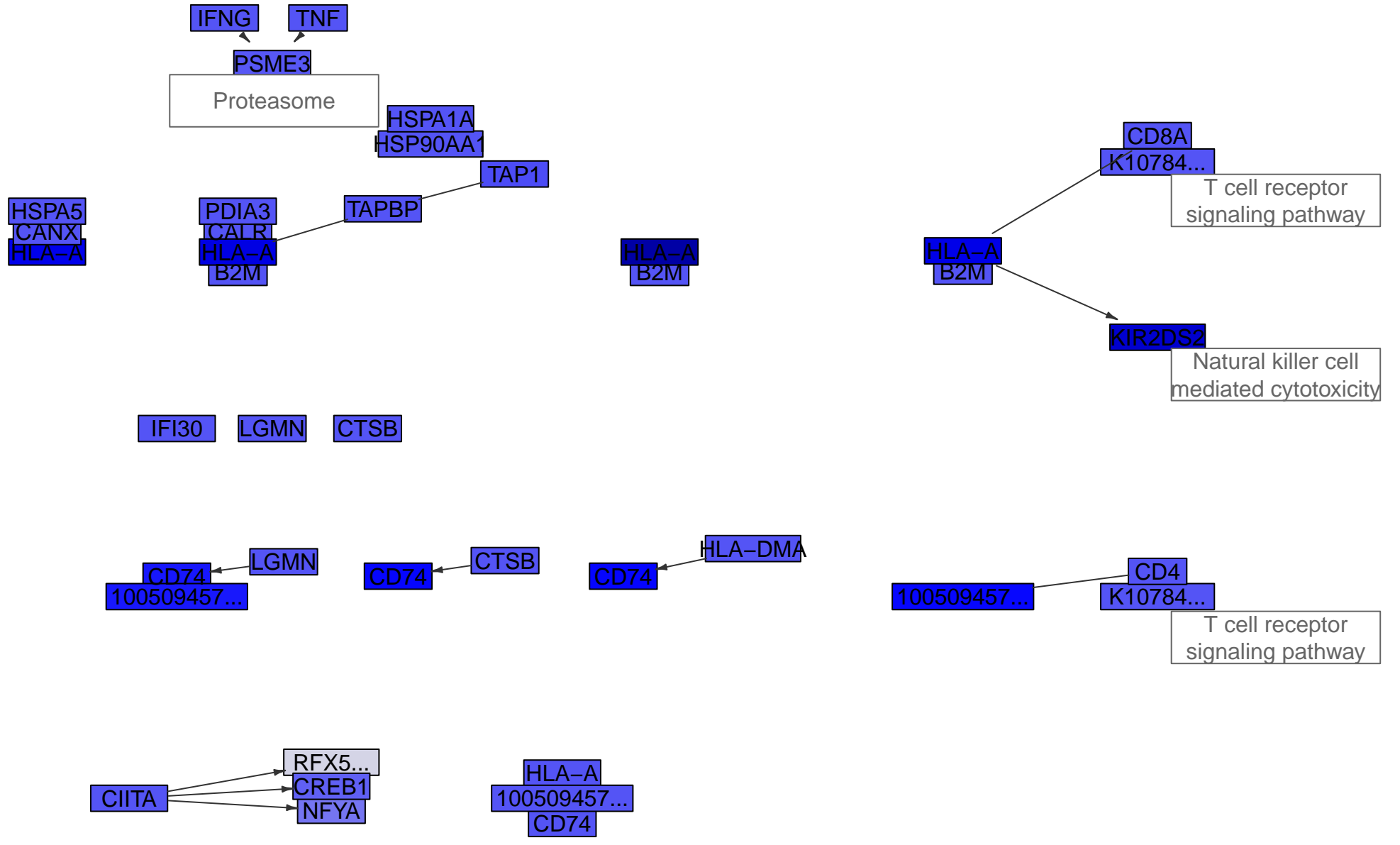
Antigen processing and presentation  
MPI-084



Antigen processing and presentation  
MPI-085

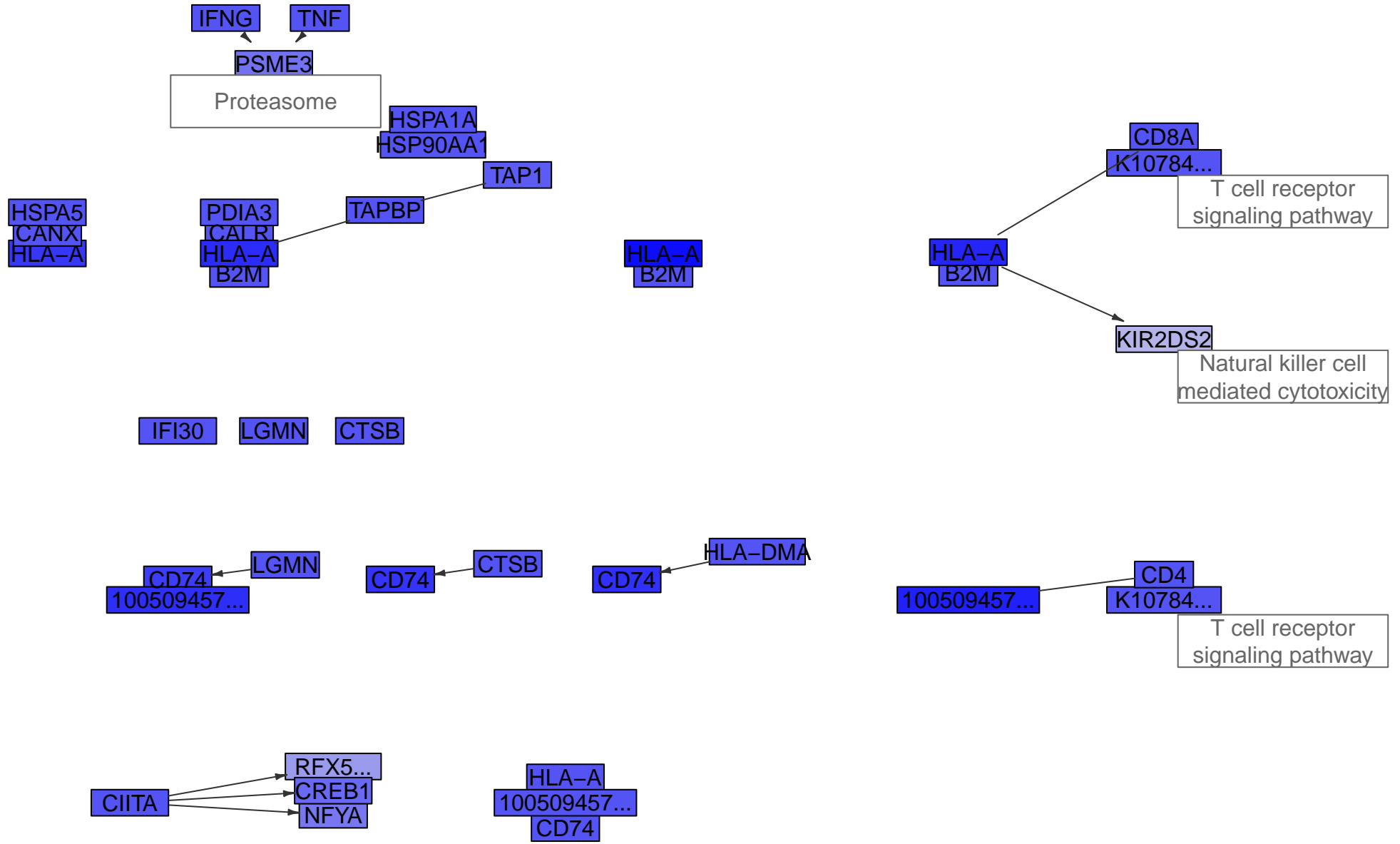


Antigen processing and presentation  
MPI-086

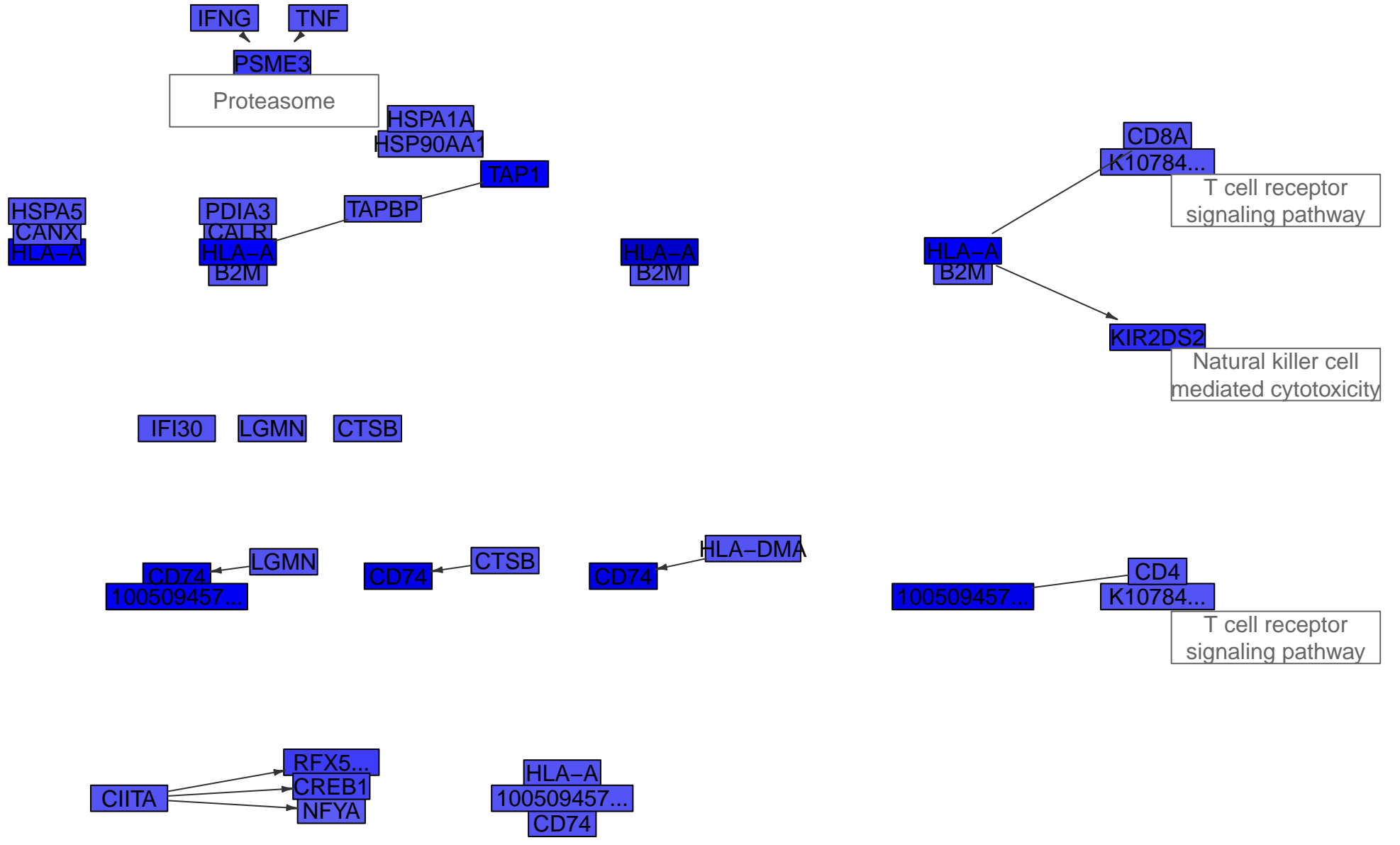




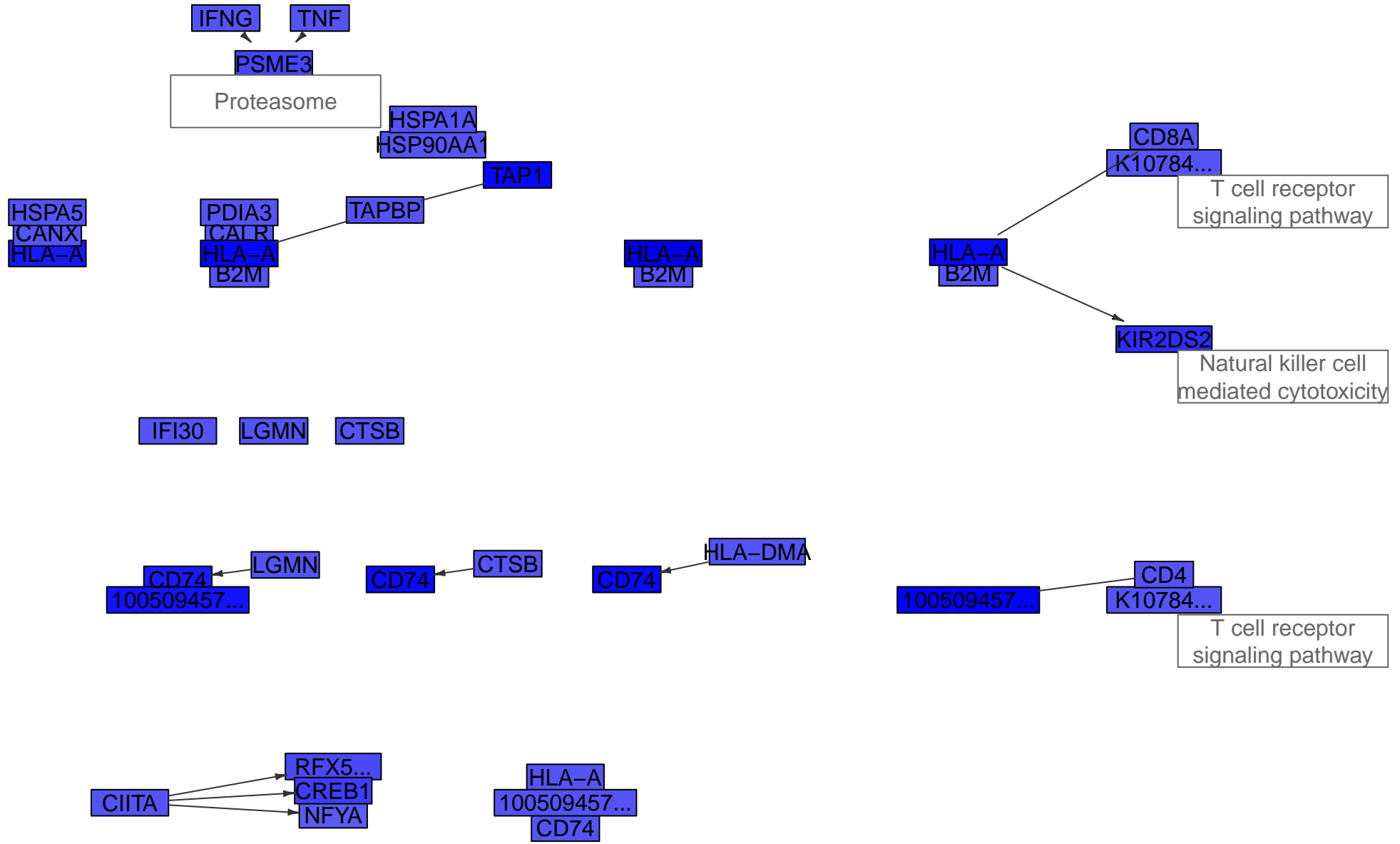
Antigen processing and presentation  
MPI-087



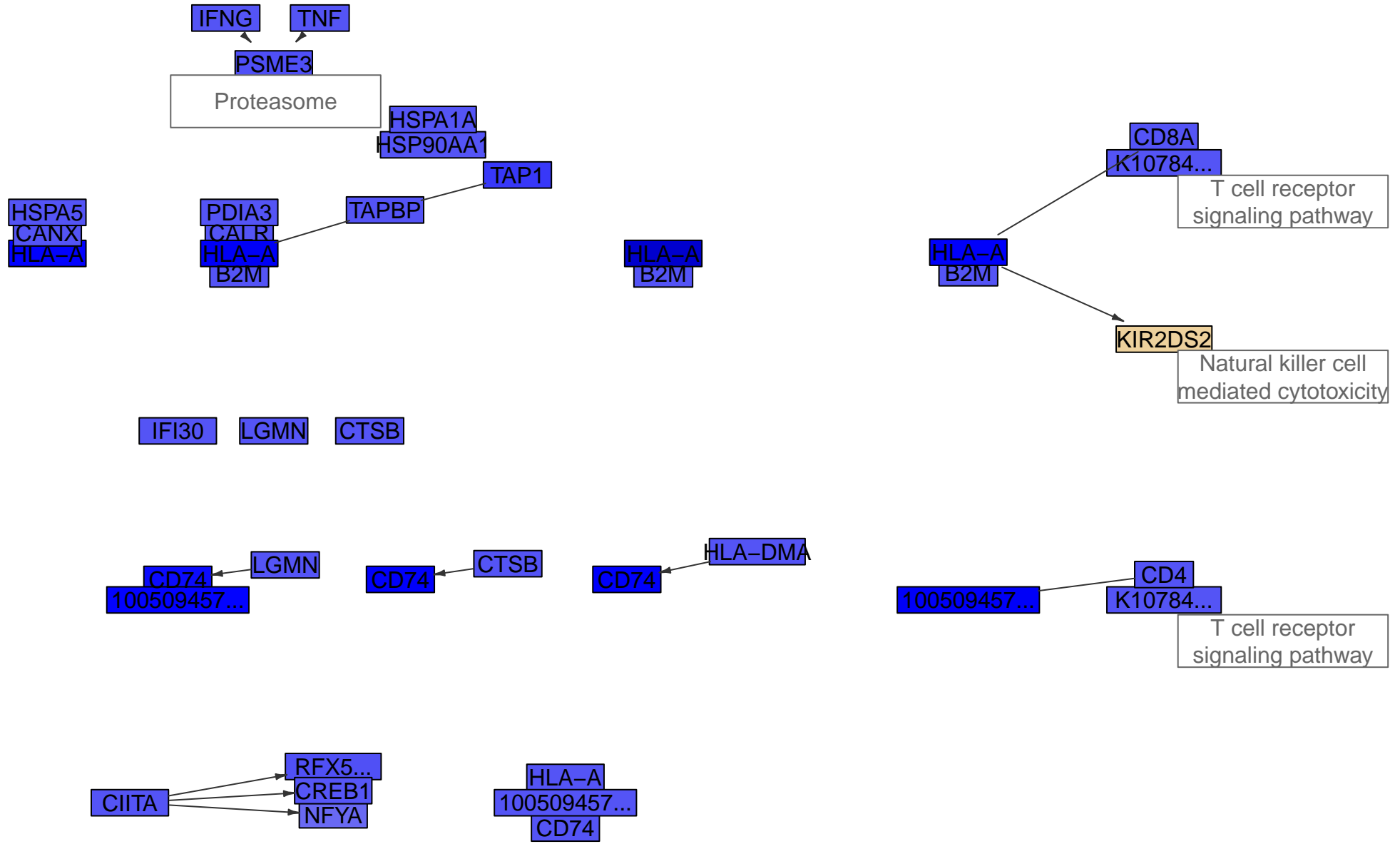
Antigen processing and presentation  
MPI-089



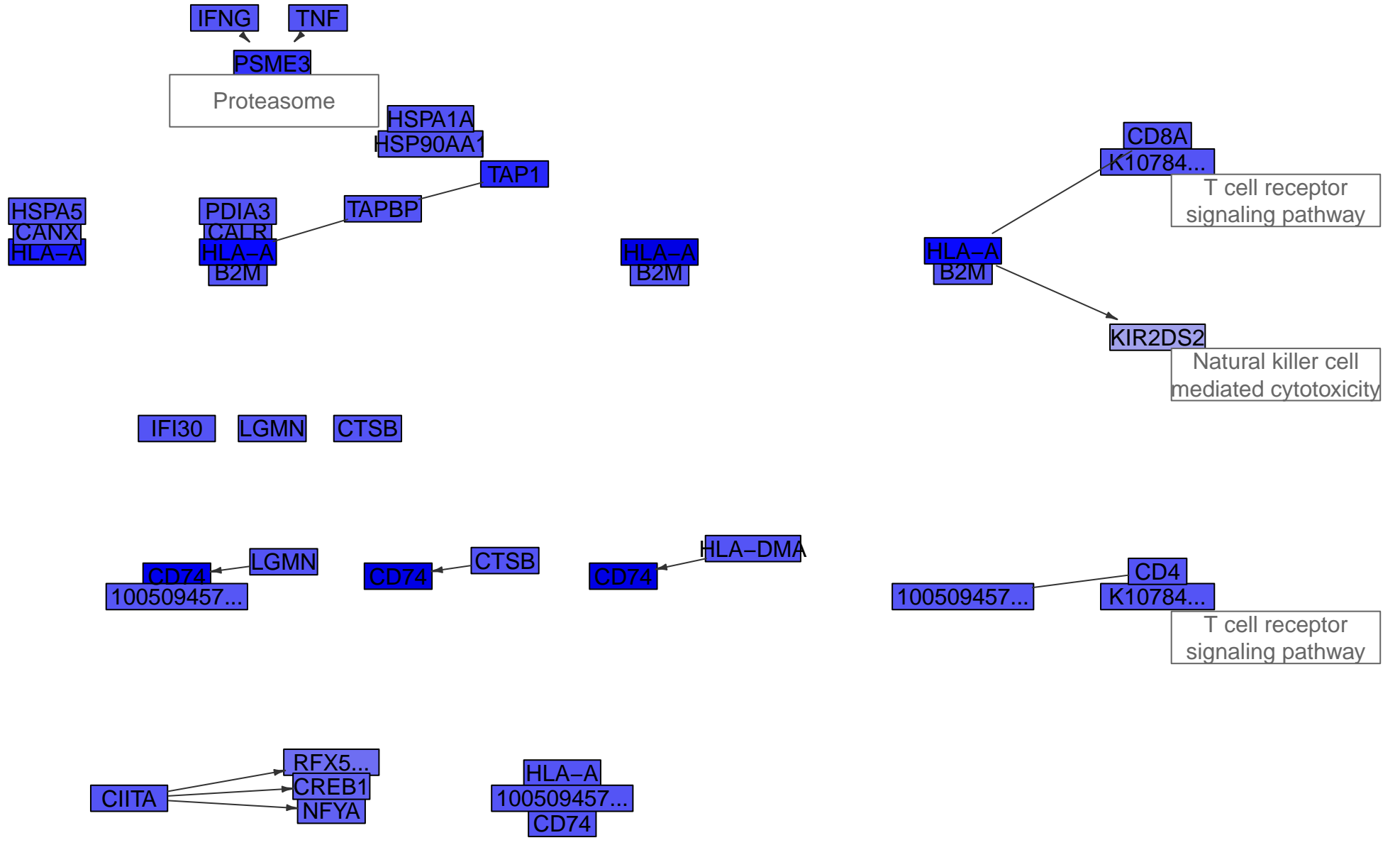
Antigen processing and presentation  
MPI-090



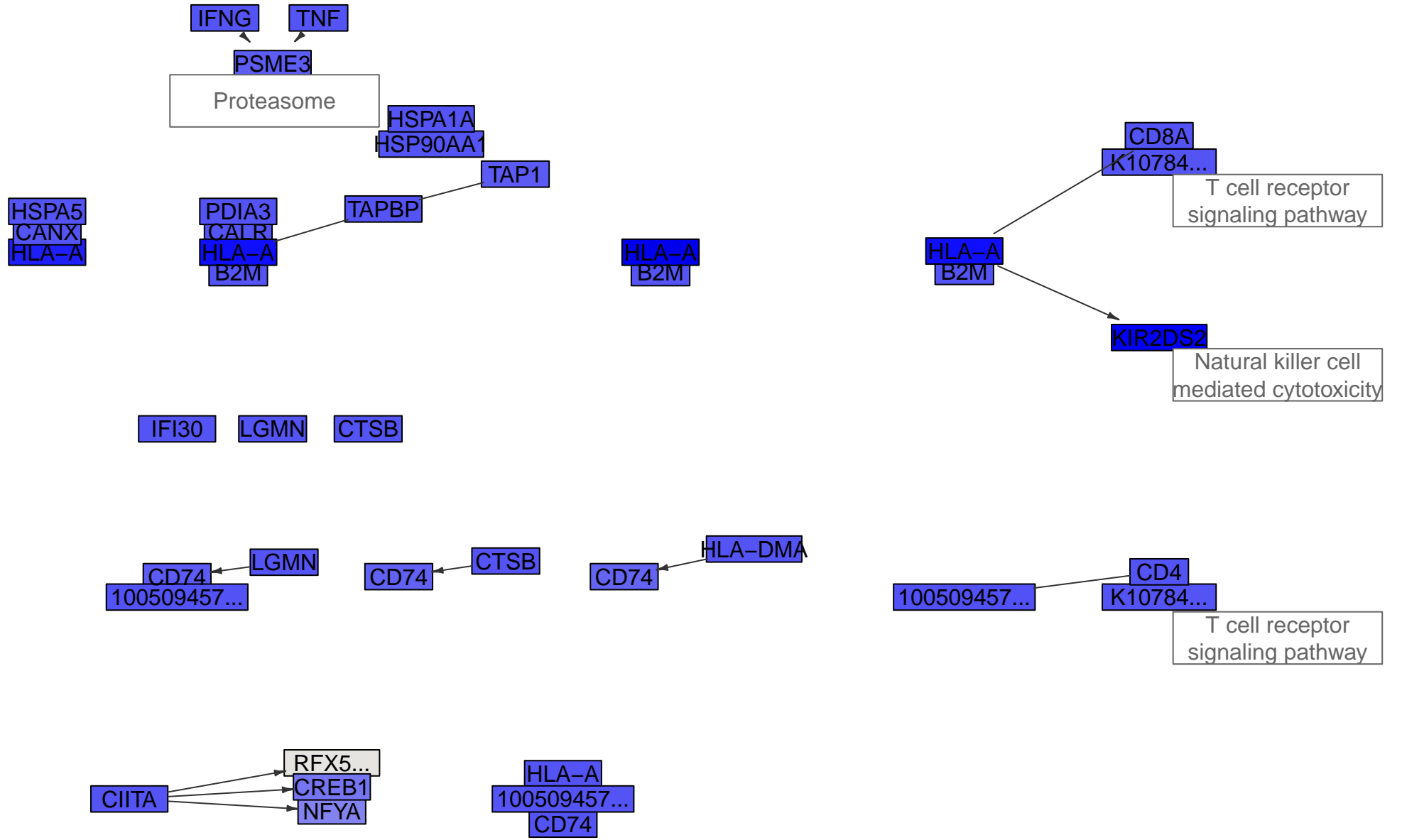
Antigen processing and presentation  
MPI-091



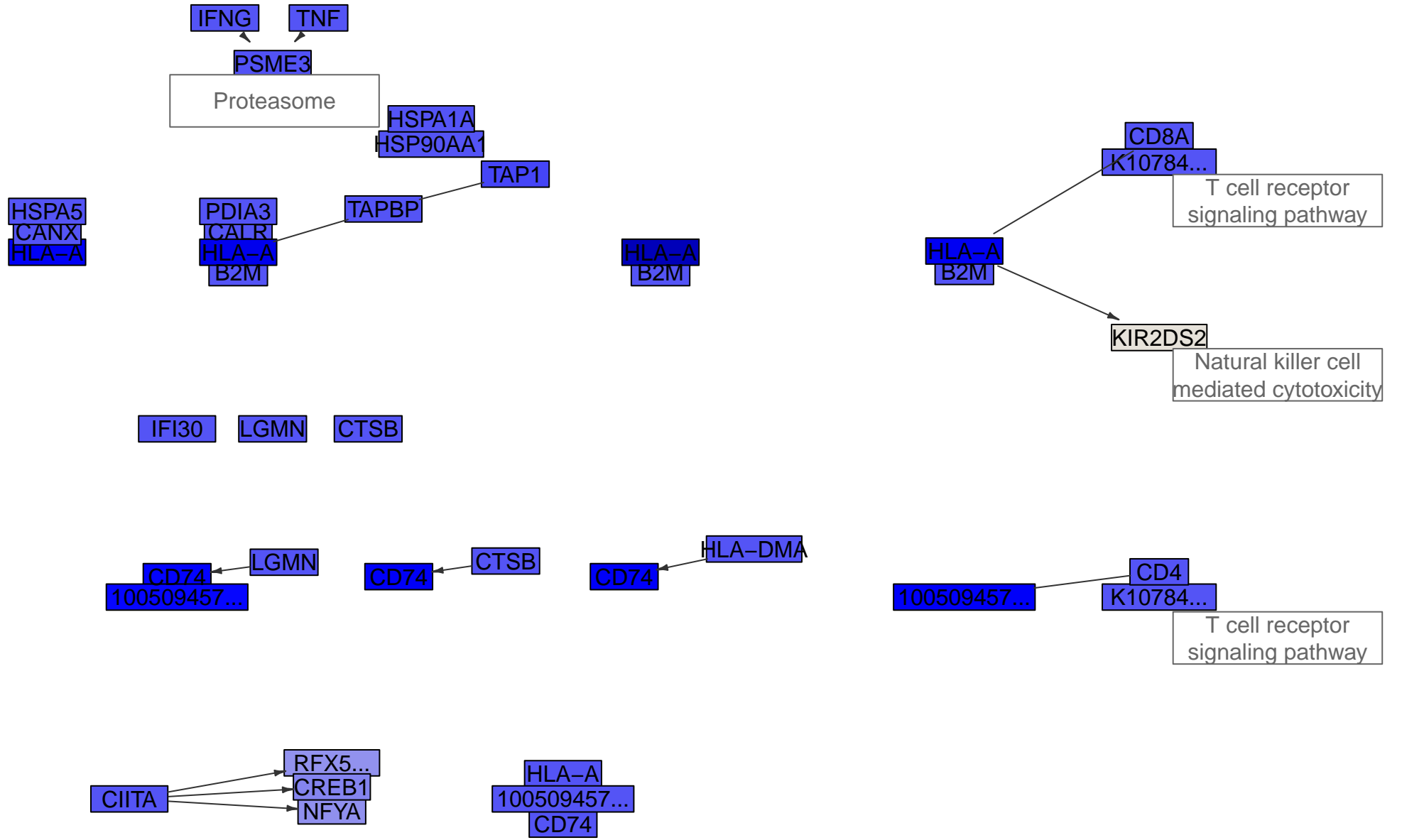
Antigen processing and presentation  
MPI-095



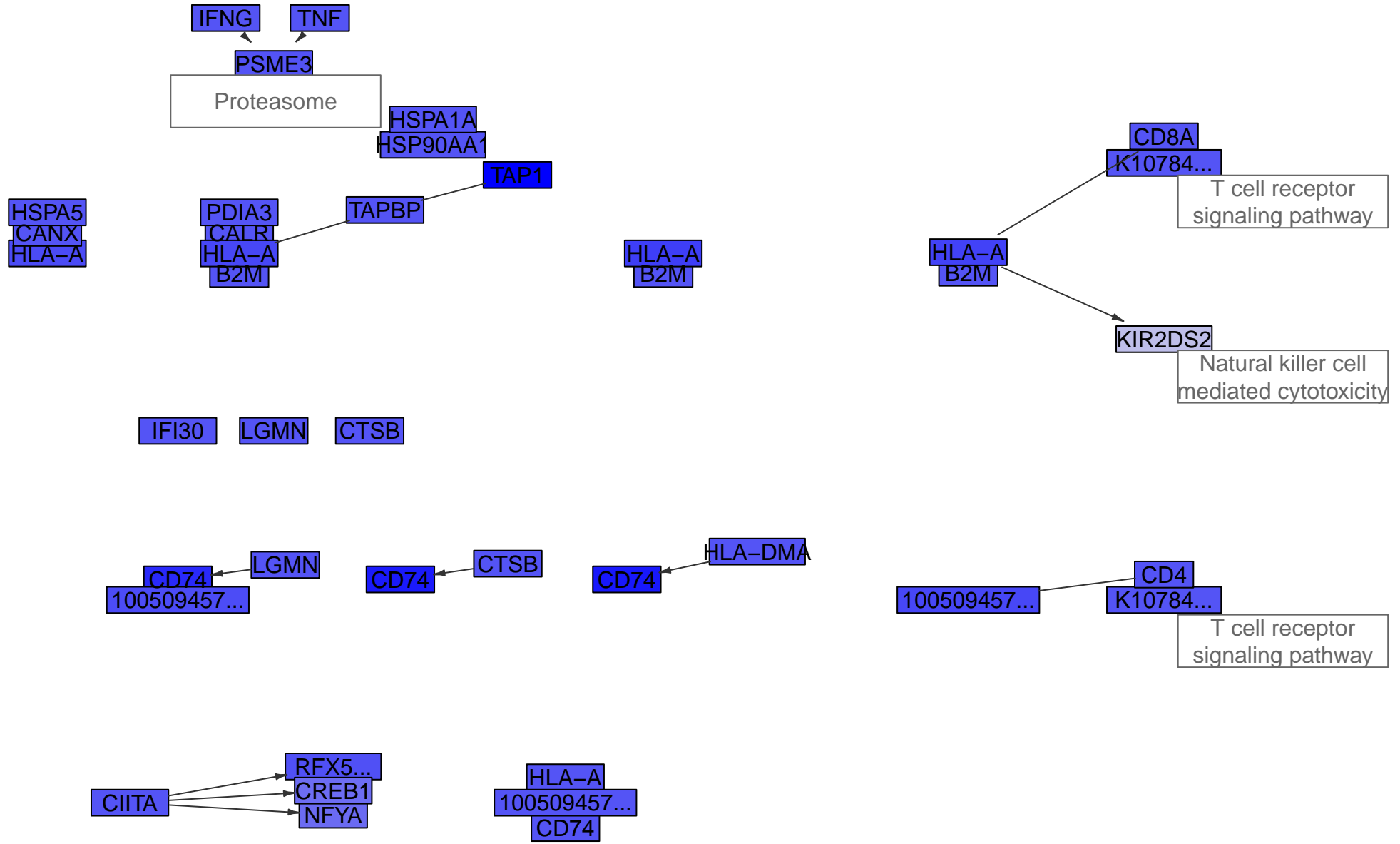
Antigen processing and presentation  
MPI-101



Antigen processing and presentation  
MPI-114

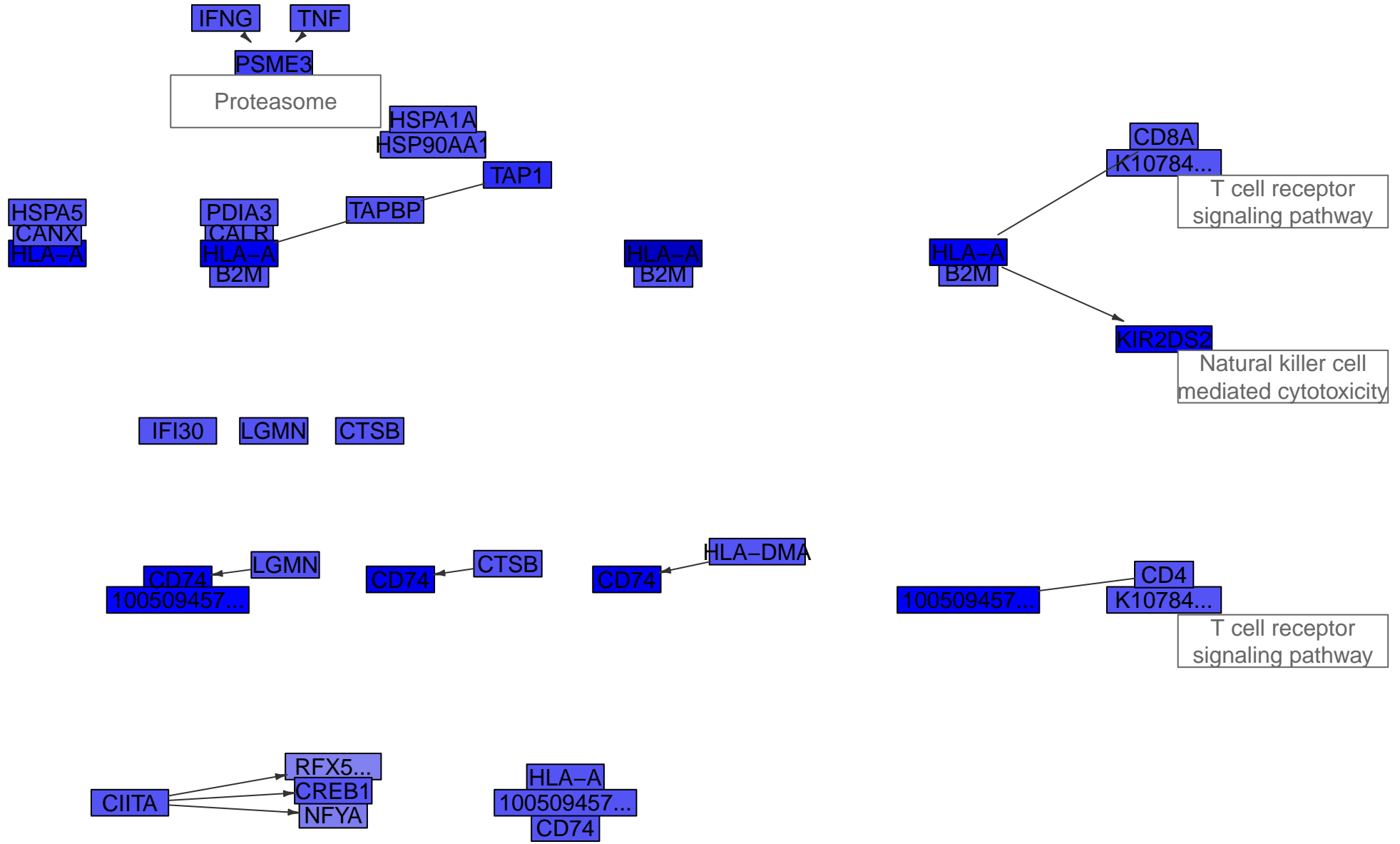


Antigen processing and presentation  
MPI-123

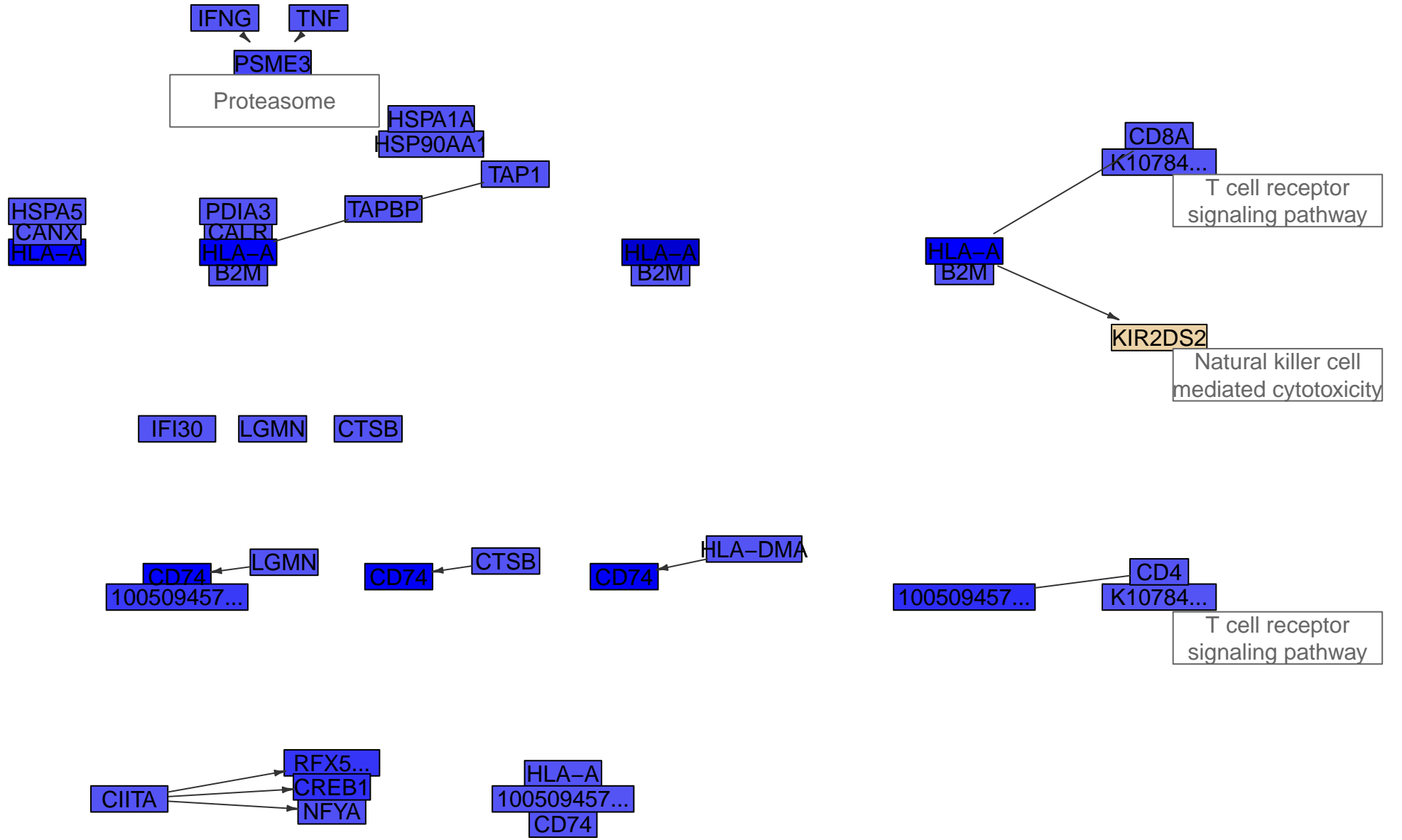




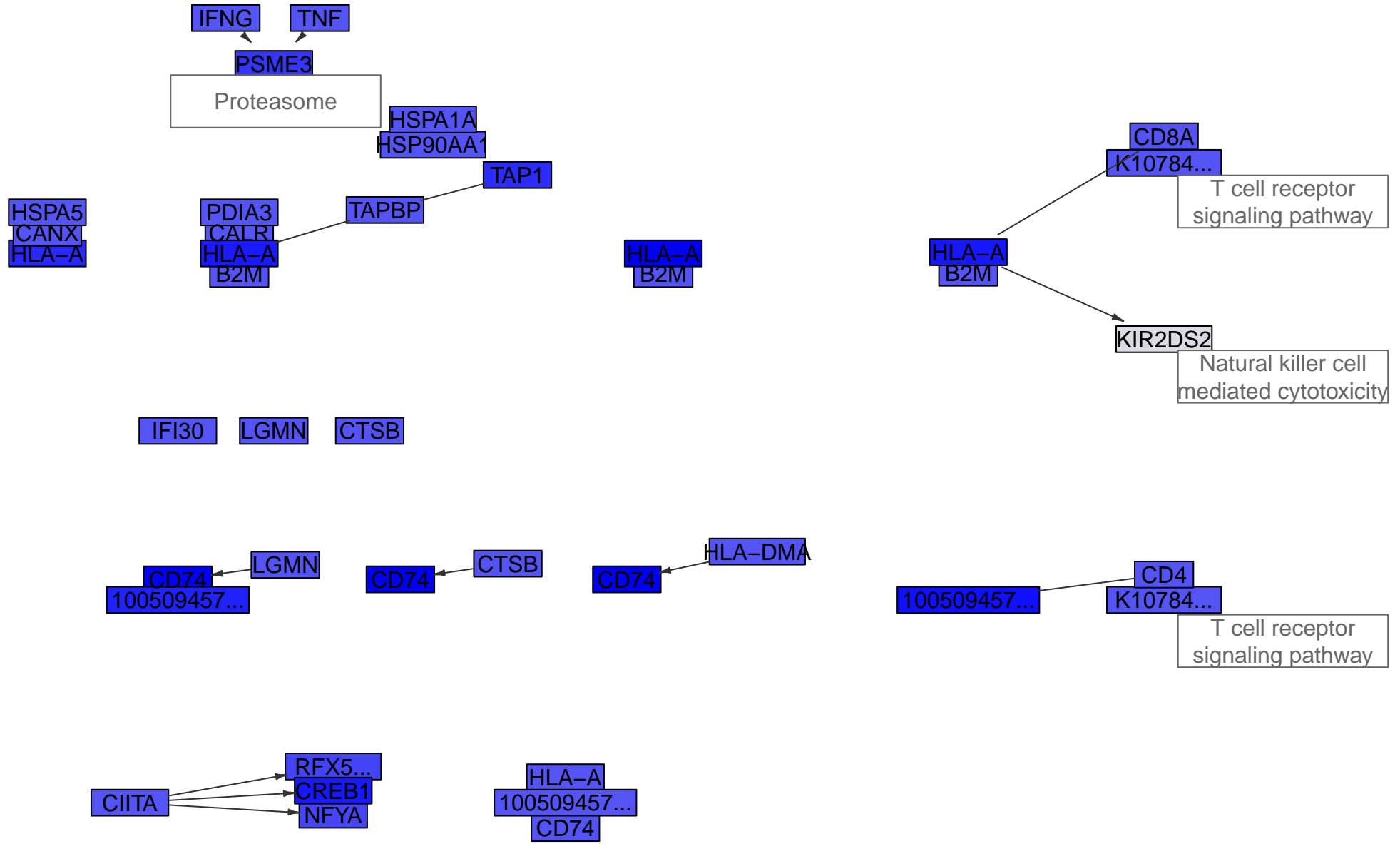
Antigen processing and presentation  
MPI-138



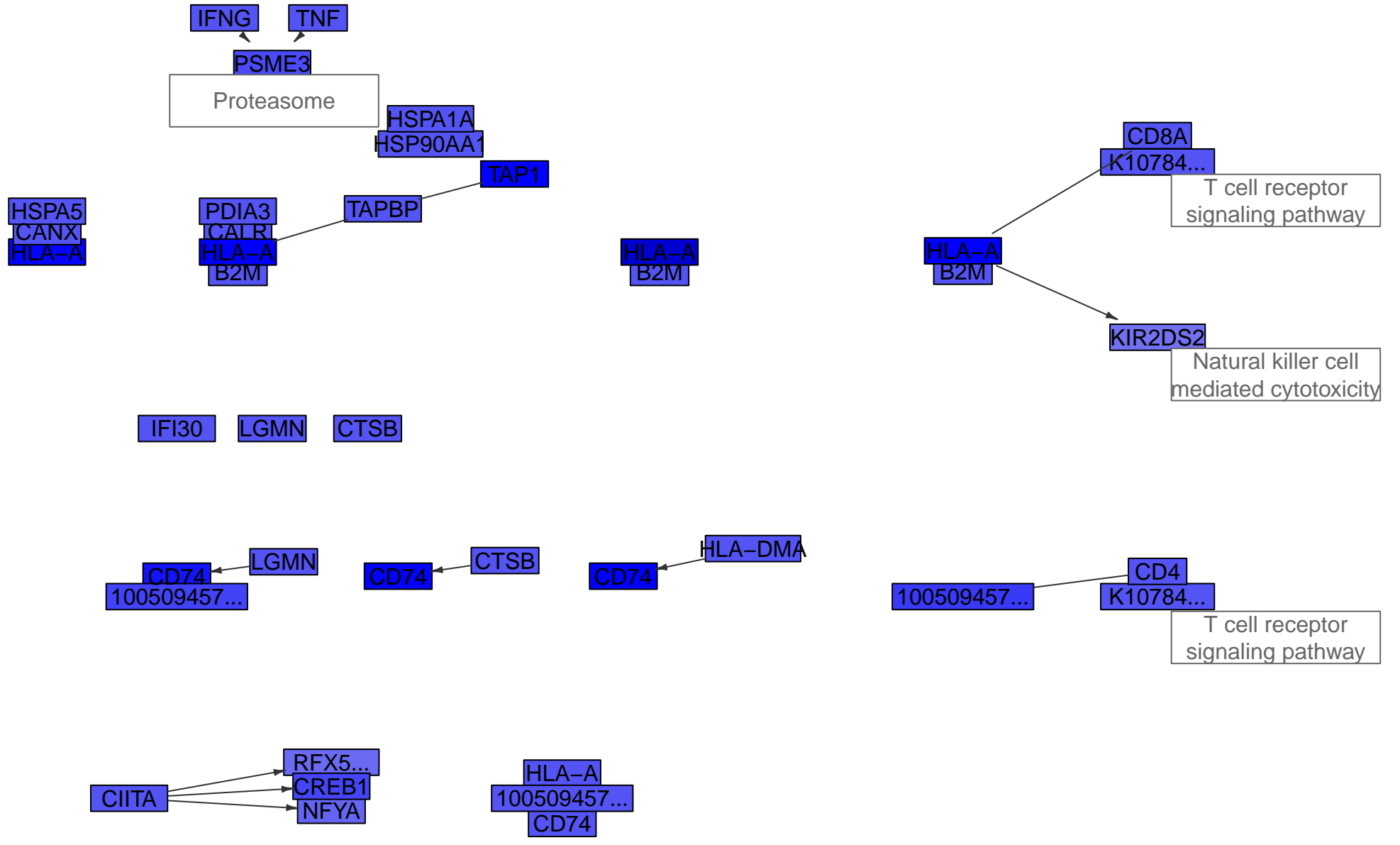
Antigen processing and presentation  
MPI-139



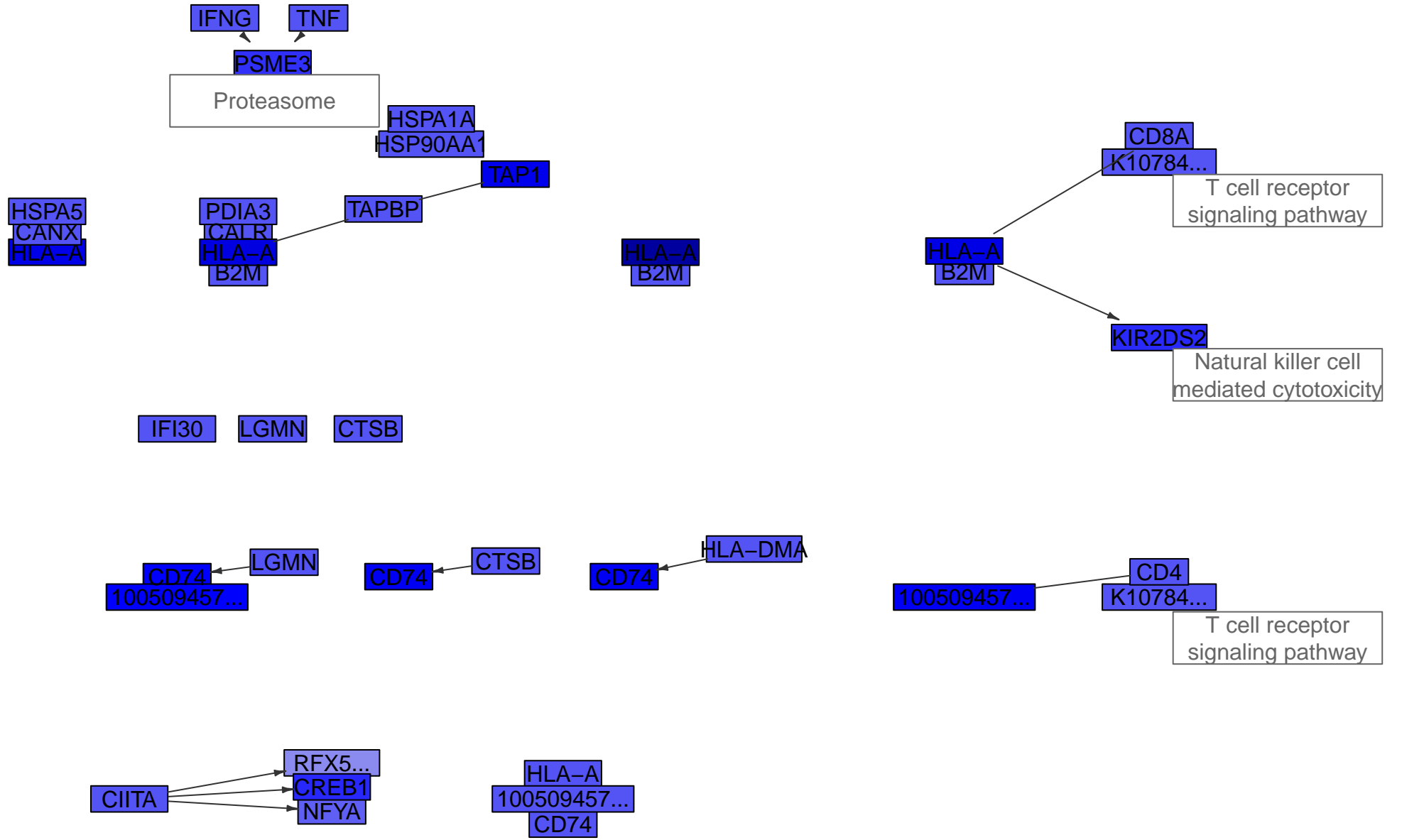
Antigen processing and presentation  
MPI-140



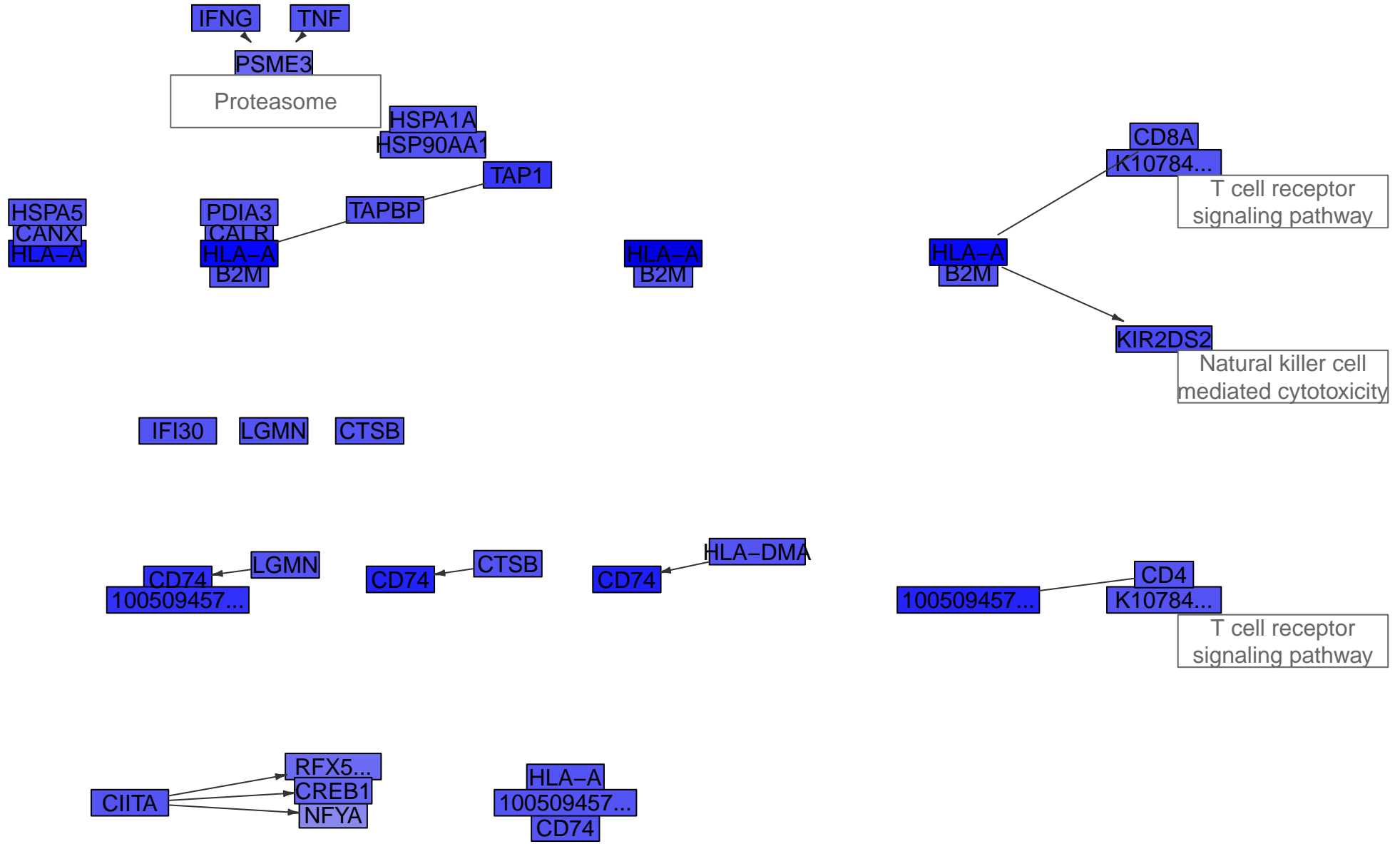
Antigen processing and presentation  
MPI-144



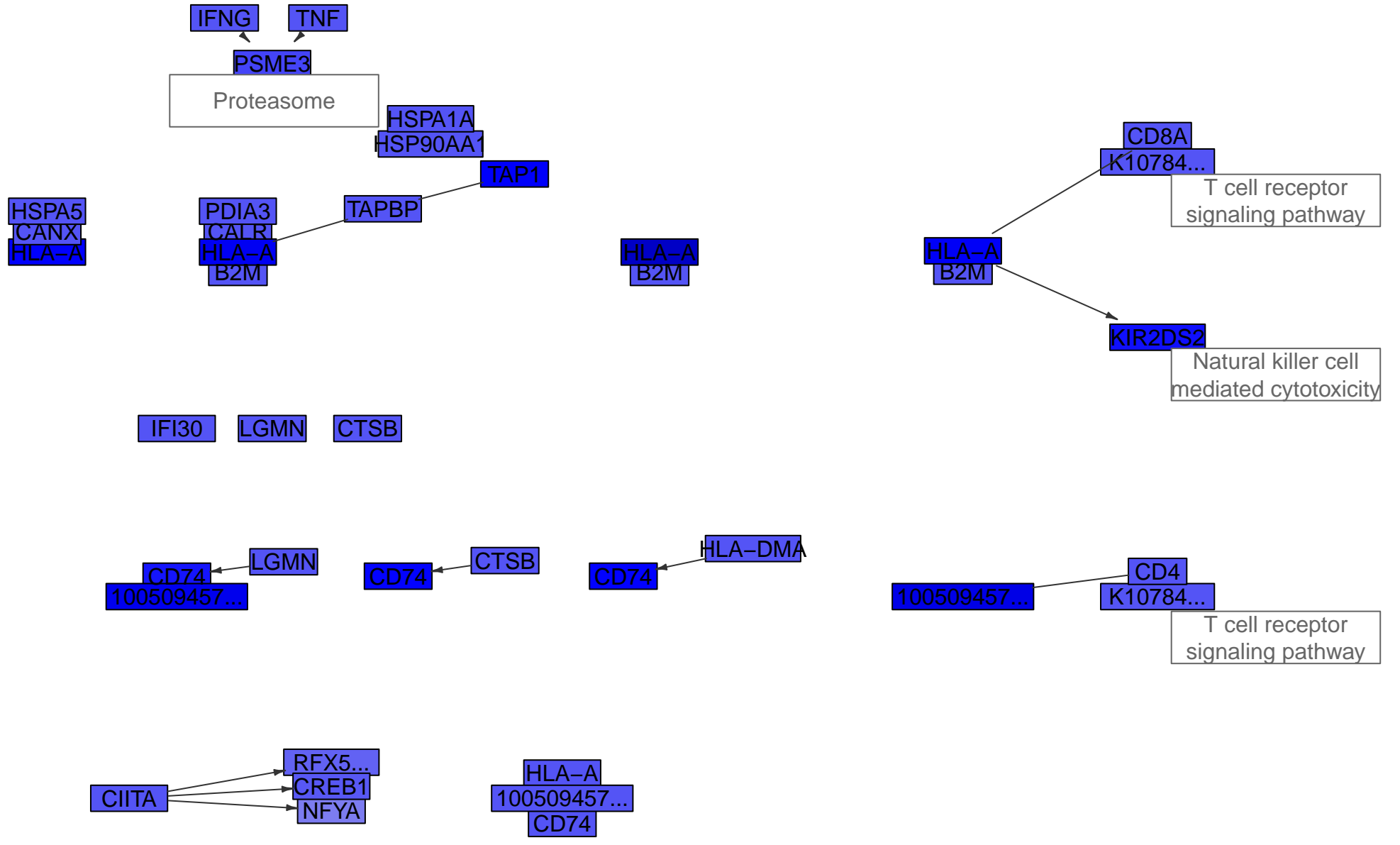
Antigen processing and presentation  
MPI-147



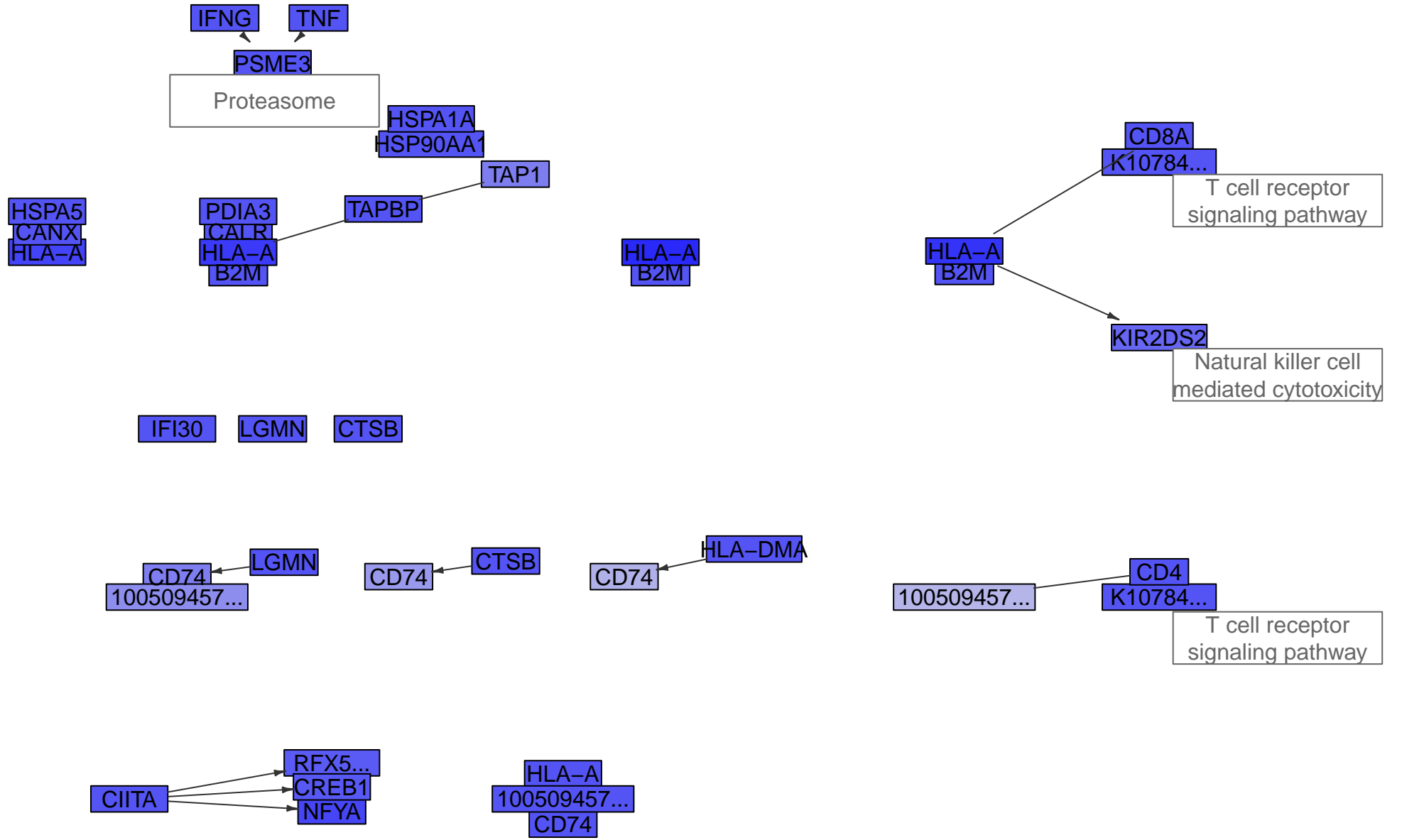
Antigen processing and presentation  
MPI-171



Antigen processing and presentation  
MPI-172

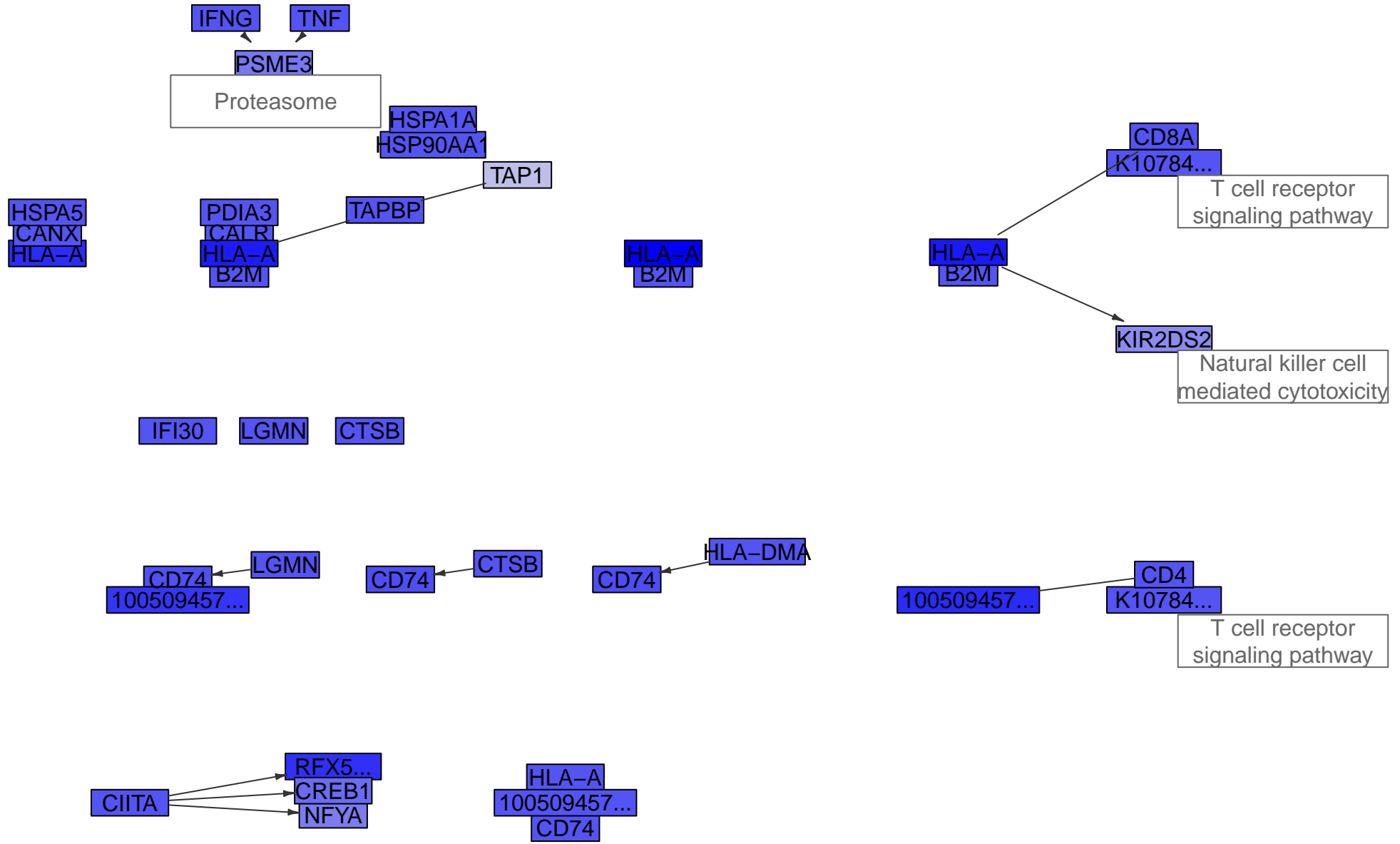


Antigen processing and presentation  
MPI-007

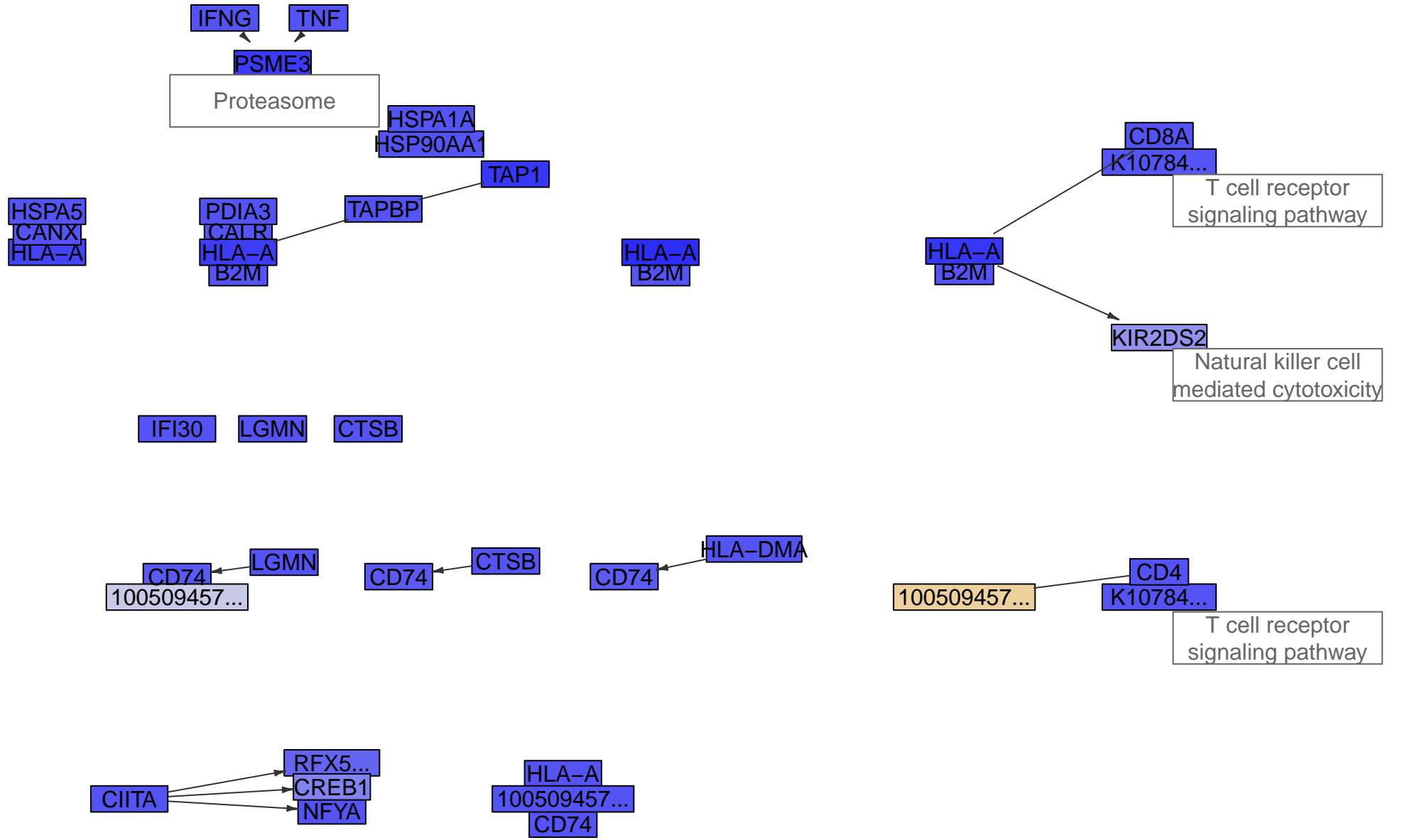




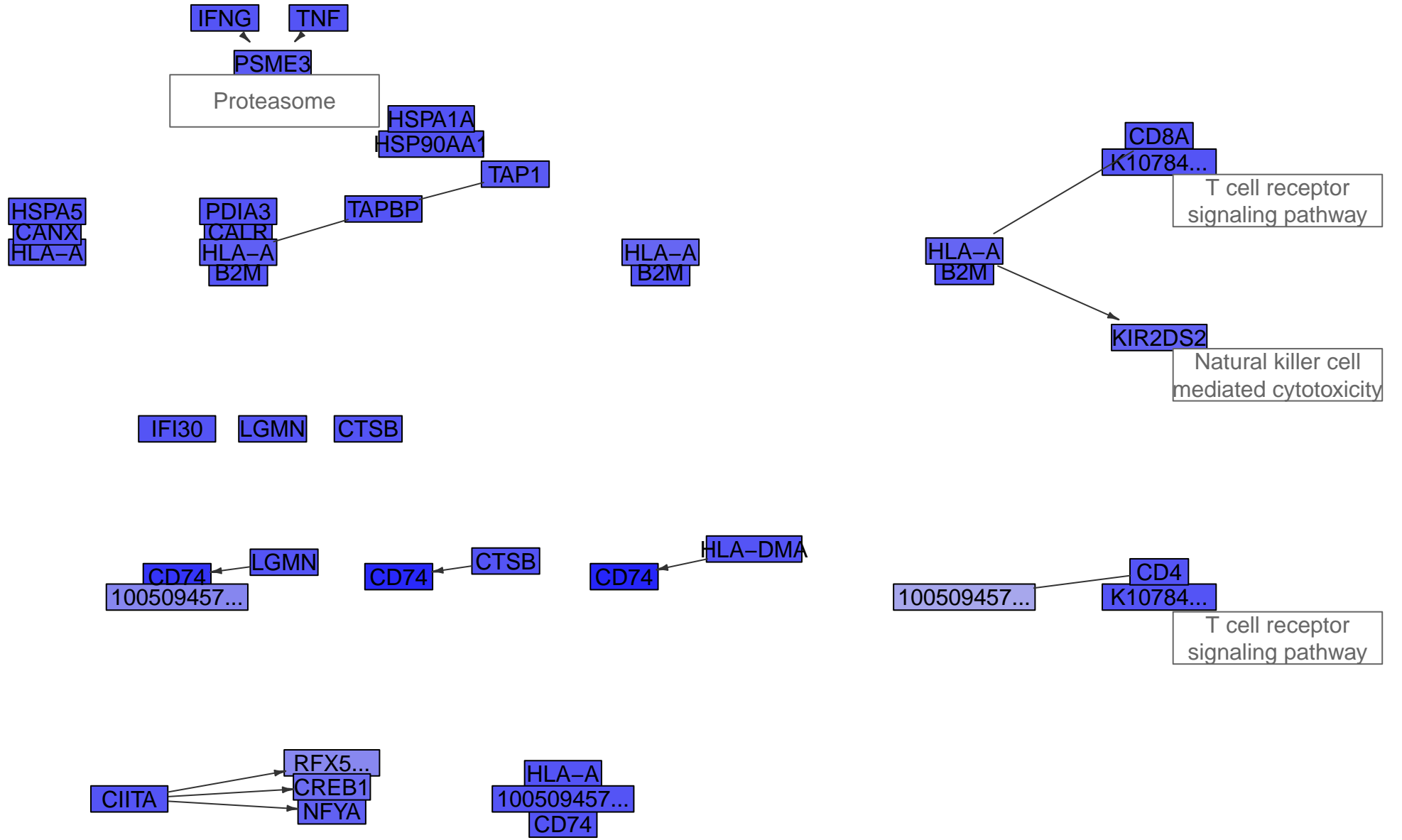
Antigen processing and presentation  
MPI-011



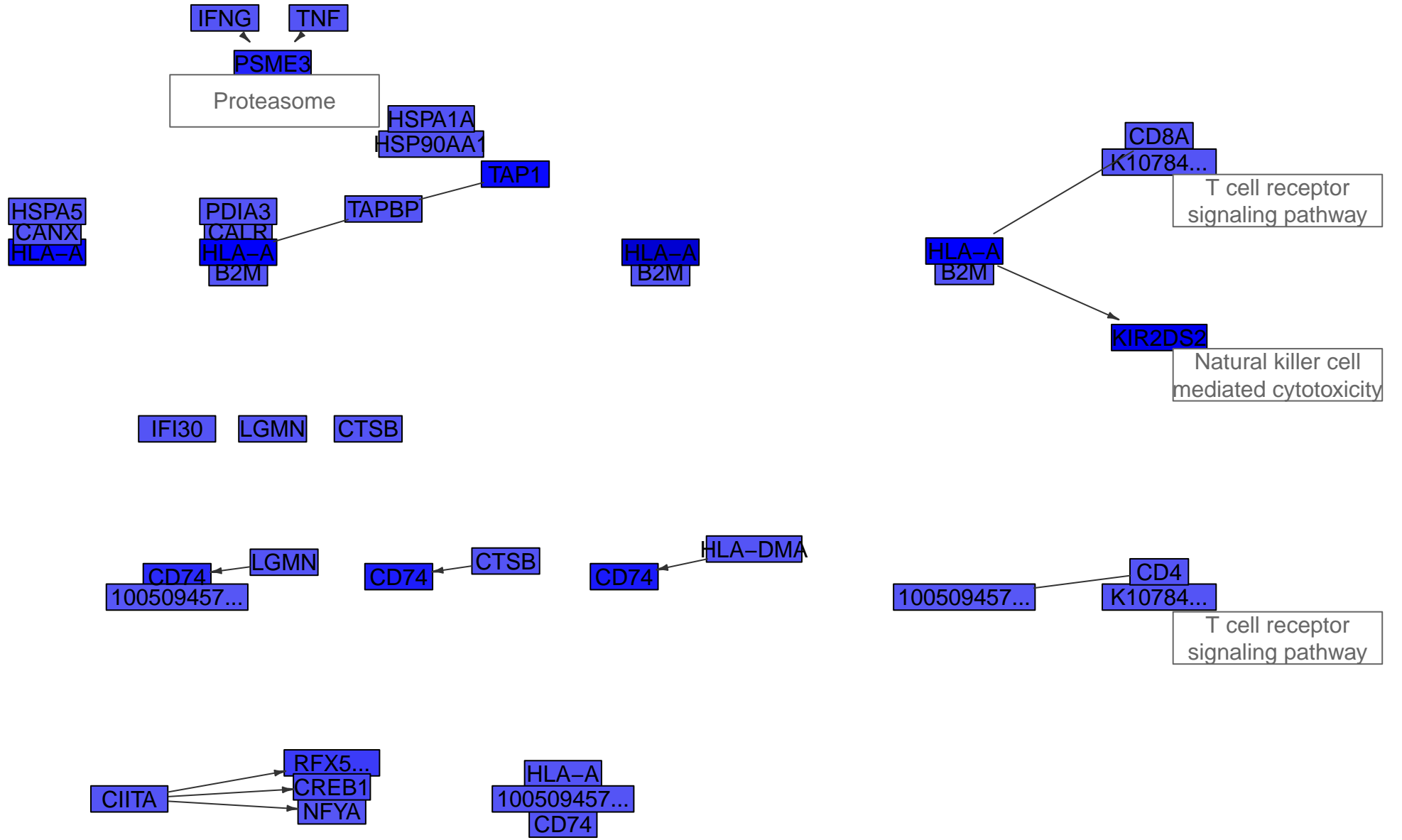
Antigen processing and presentation  
MPI-024



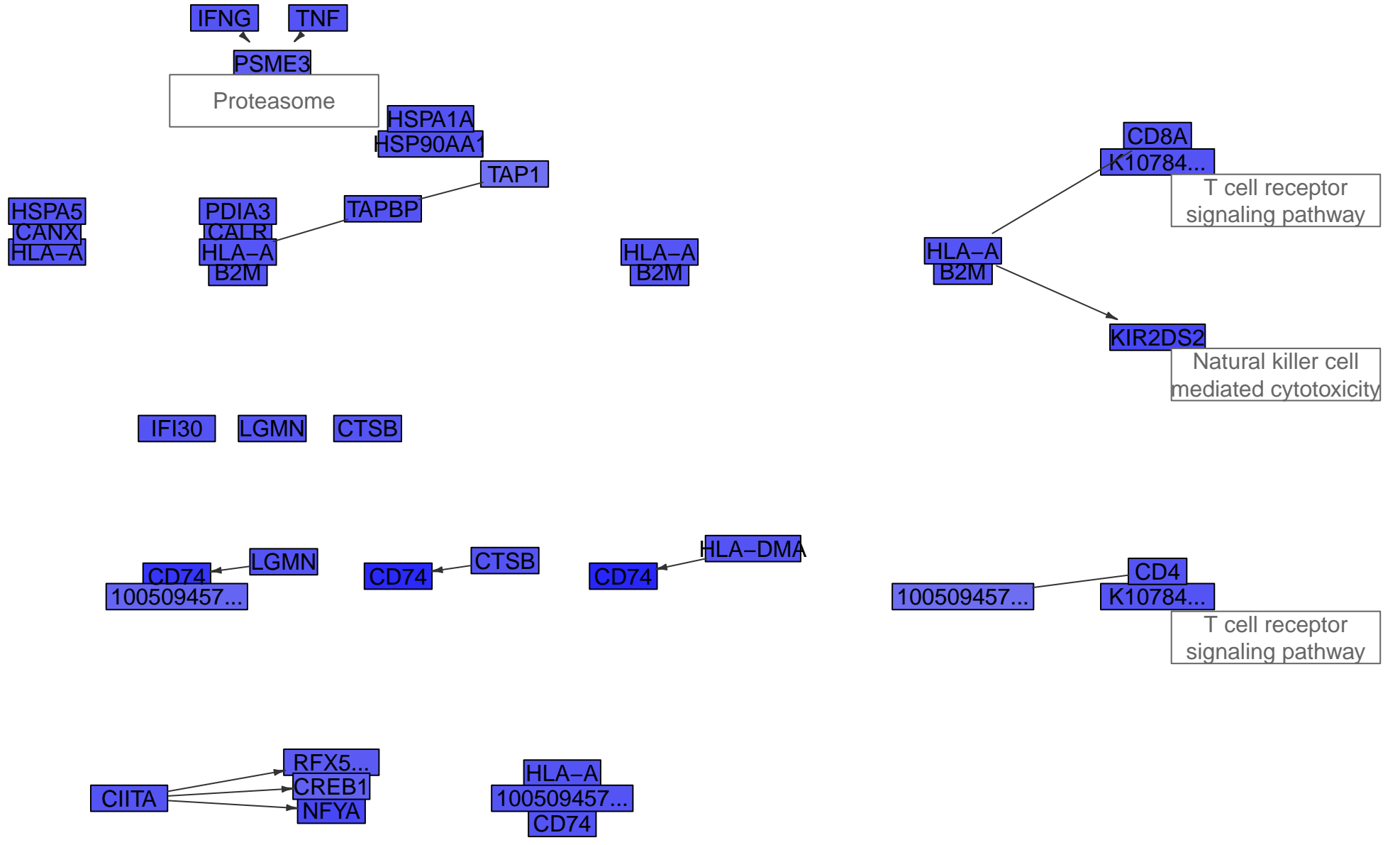
Antigen processing and presentation  
MPI-026



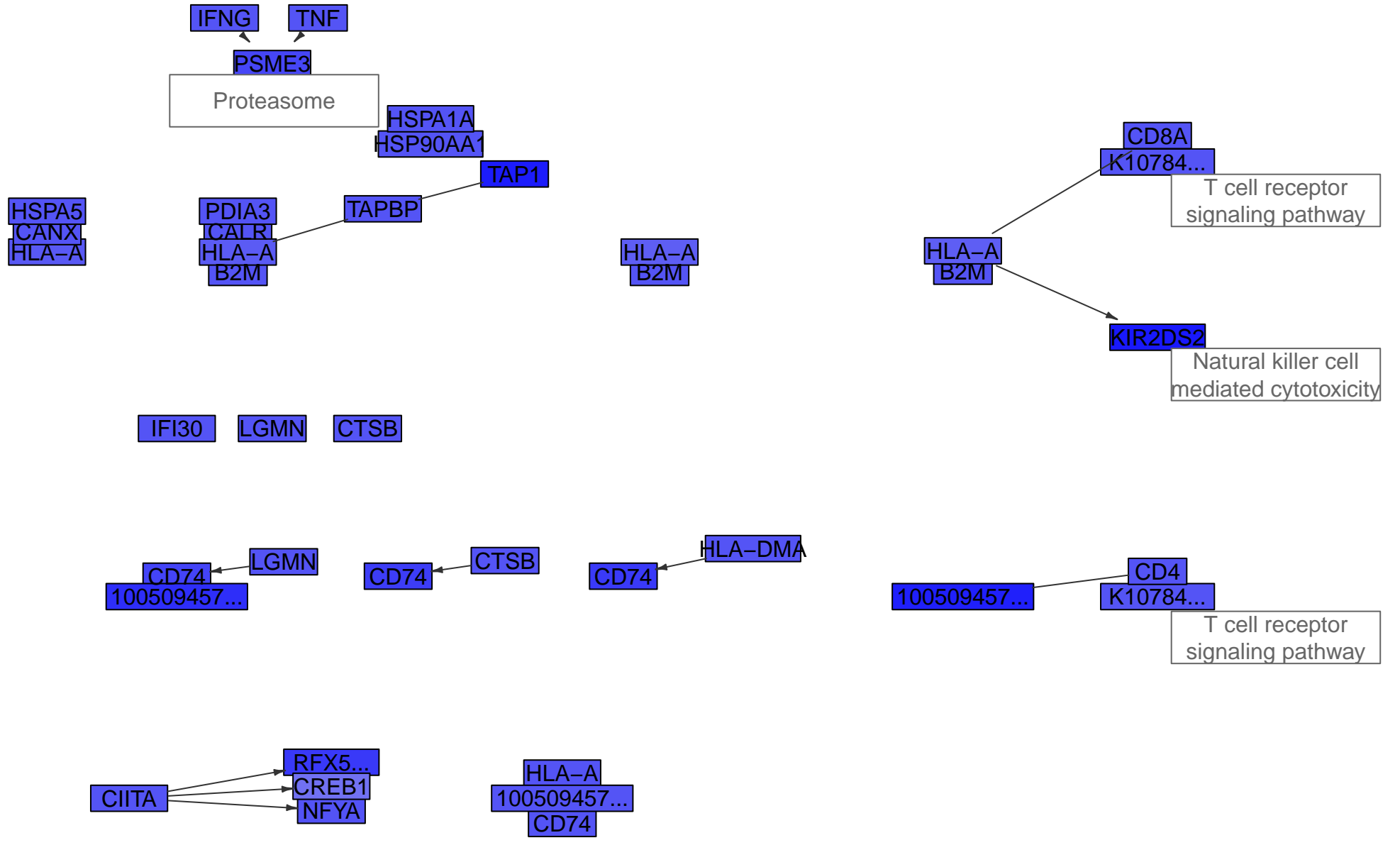
Antigen processing and presentation  
MPI-036



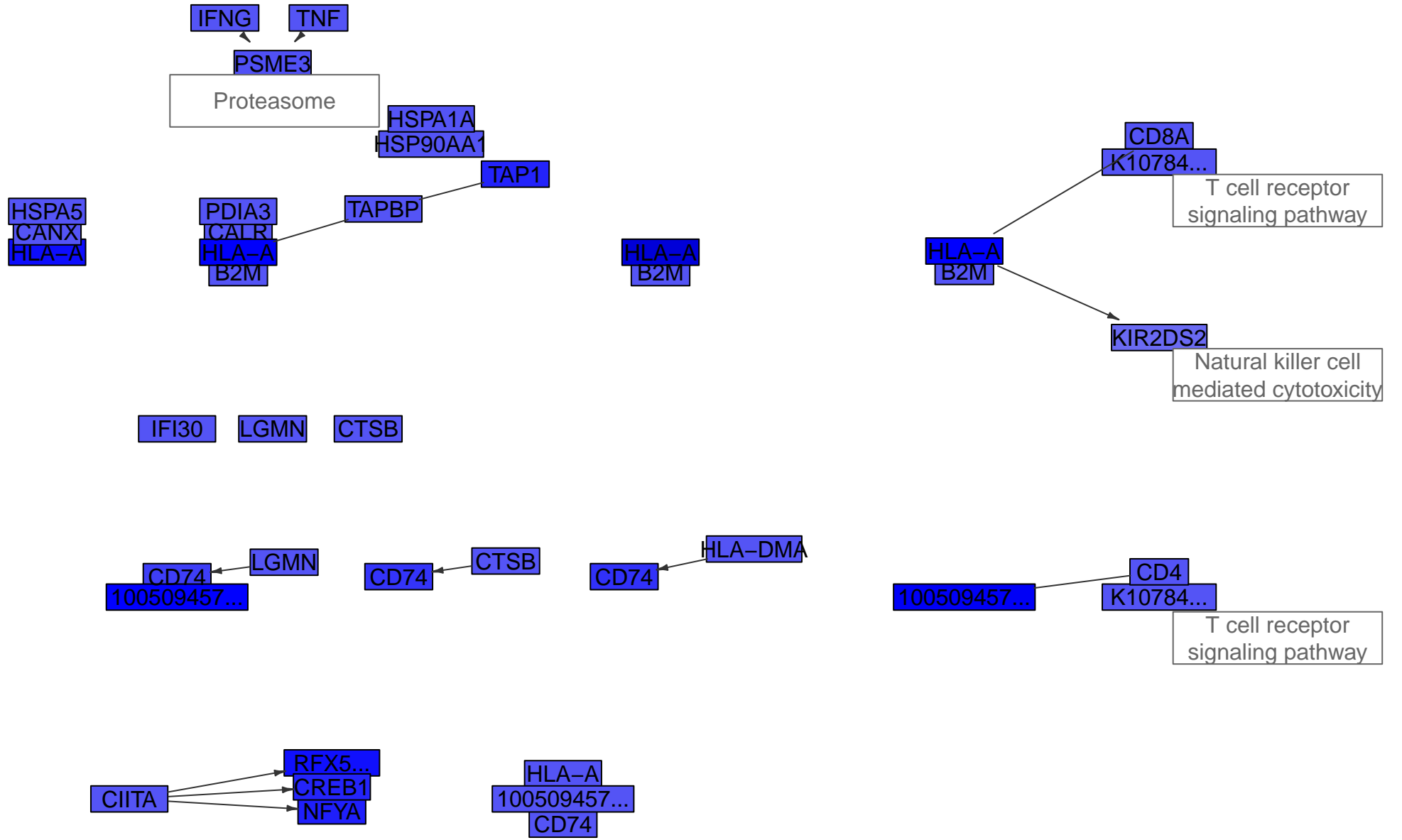
Antigen processing and presentation  
MPI-037



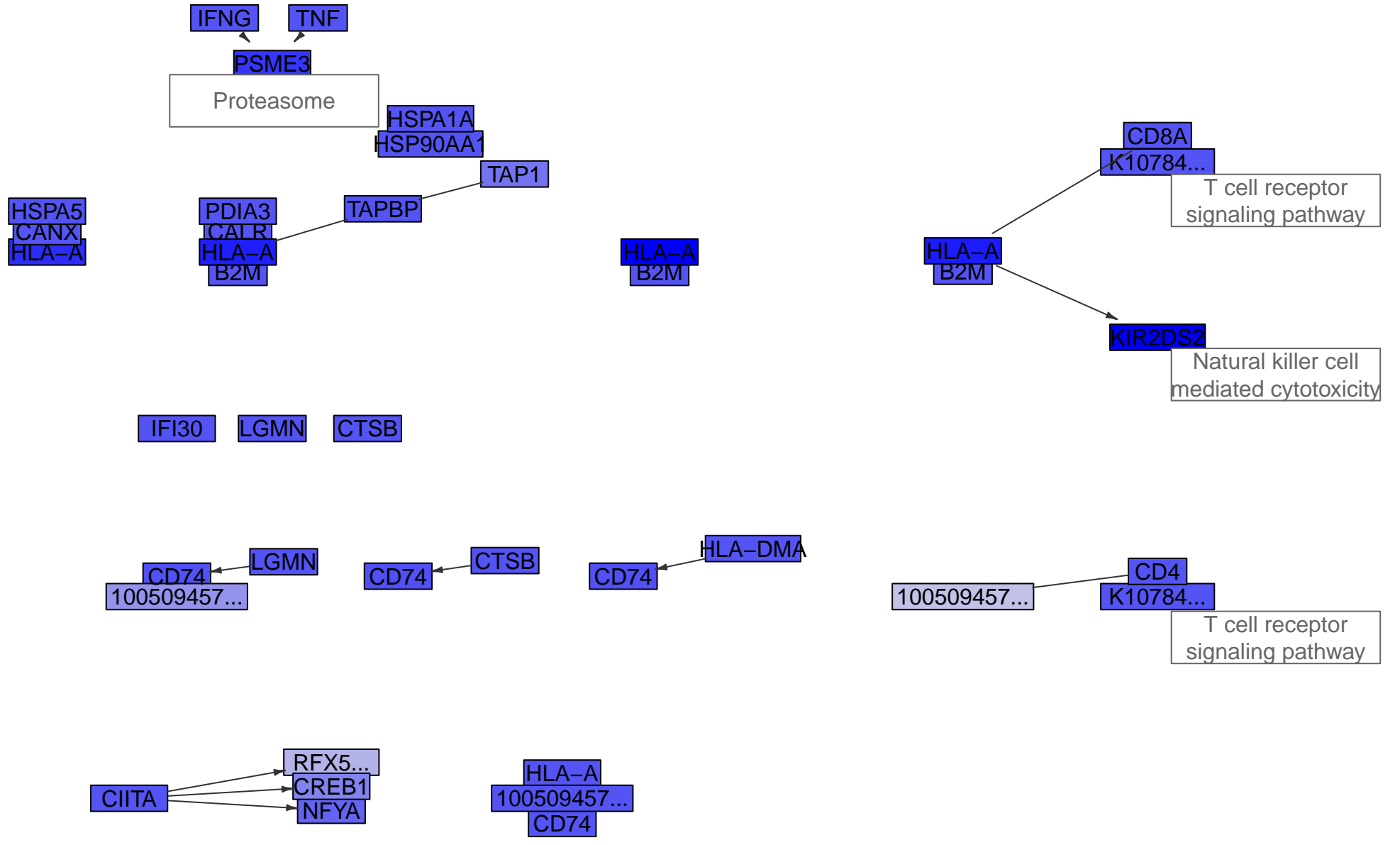
Antigen processing and presentation  
MPI-038



Antigen processing and presentation  
MPI-041

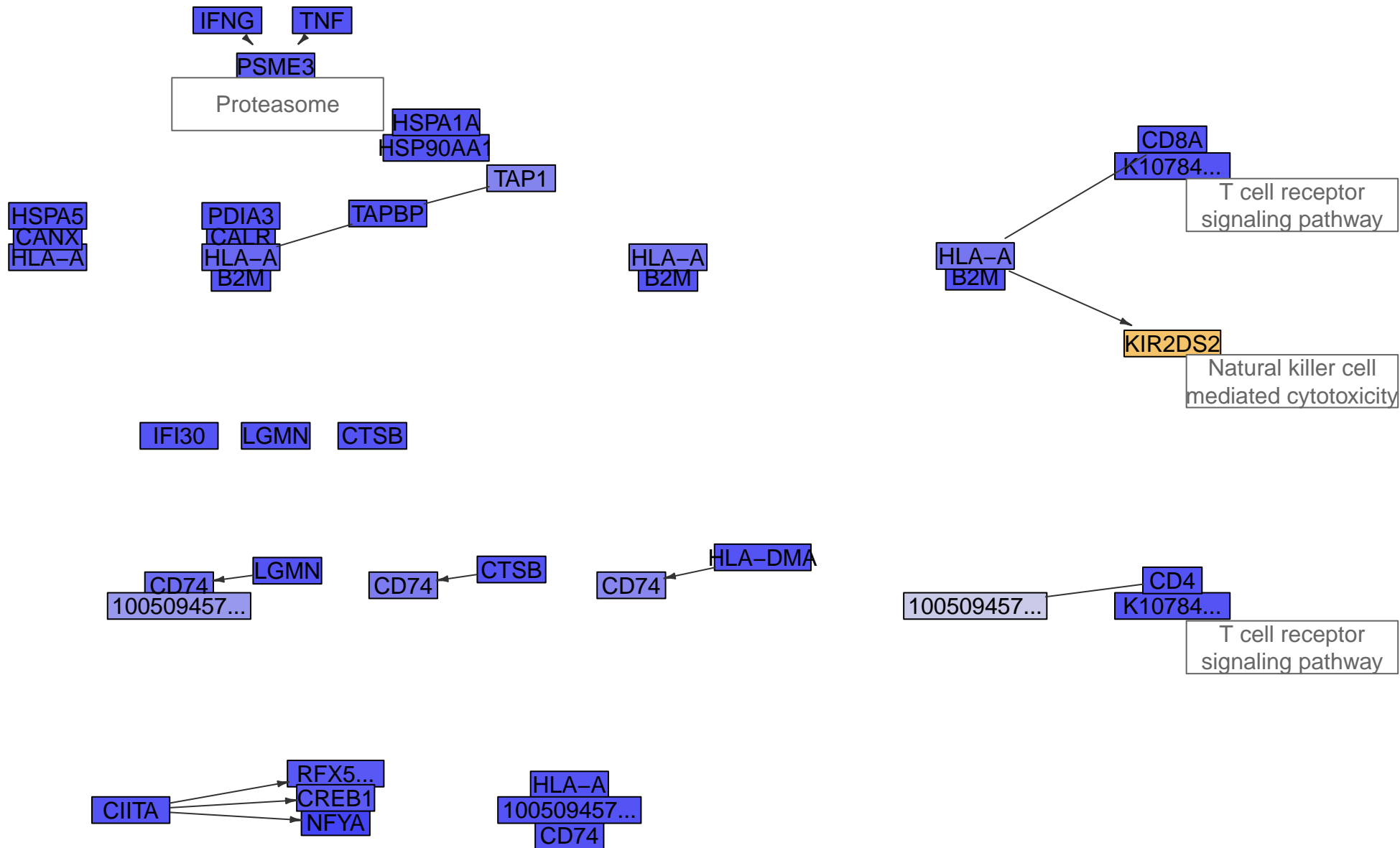


Antigen processing and presentation  
MPI-046

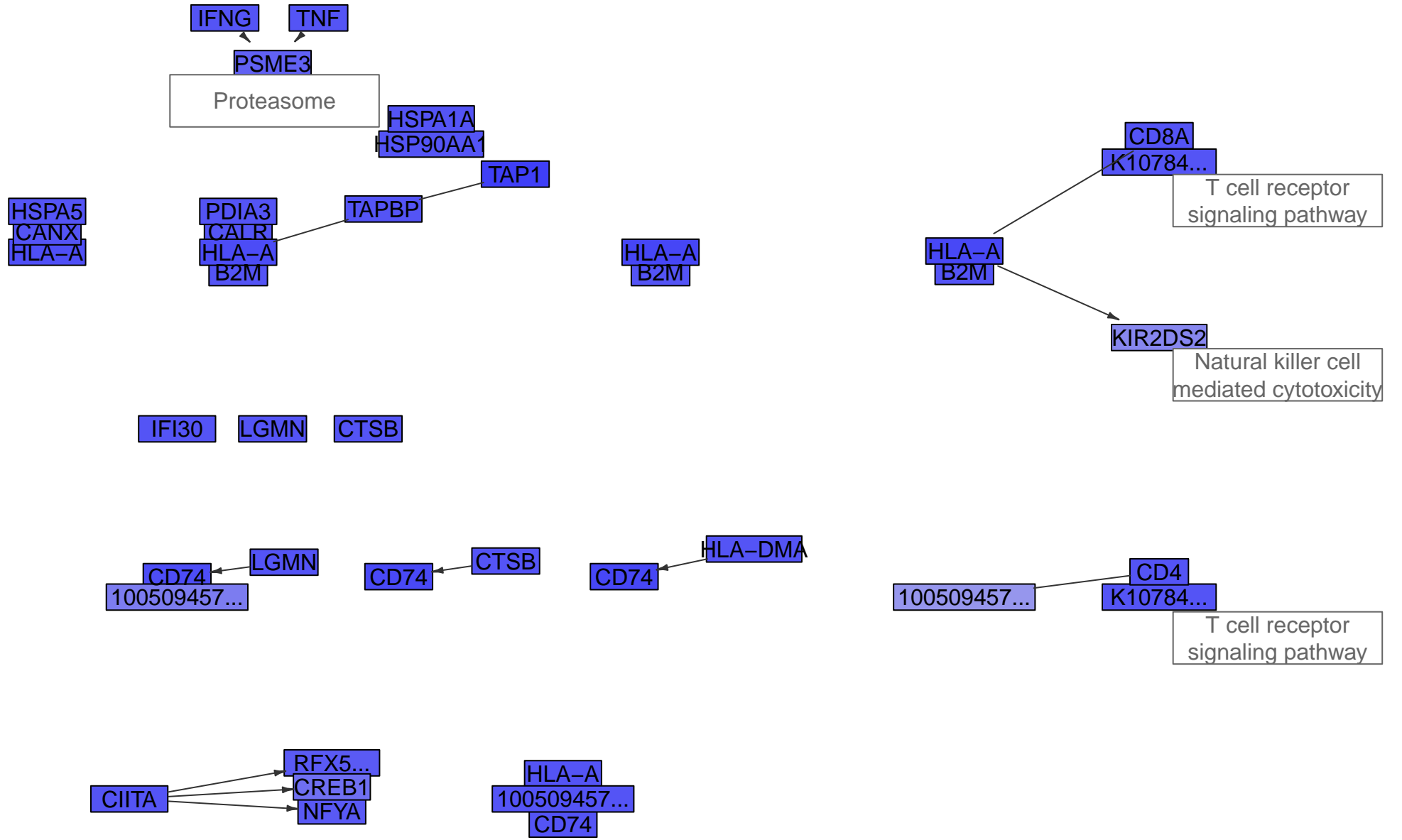




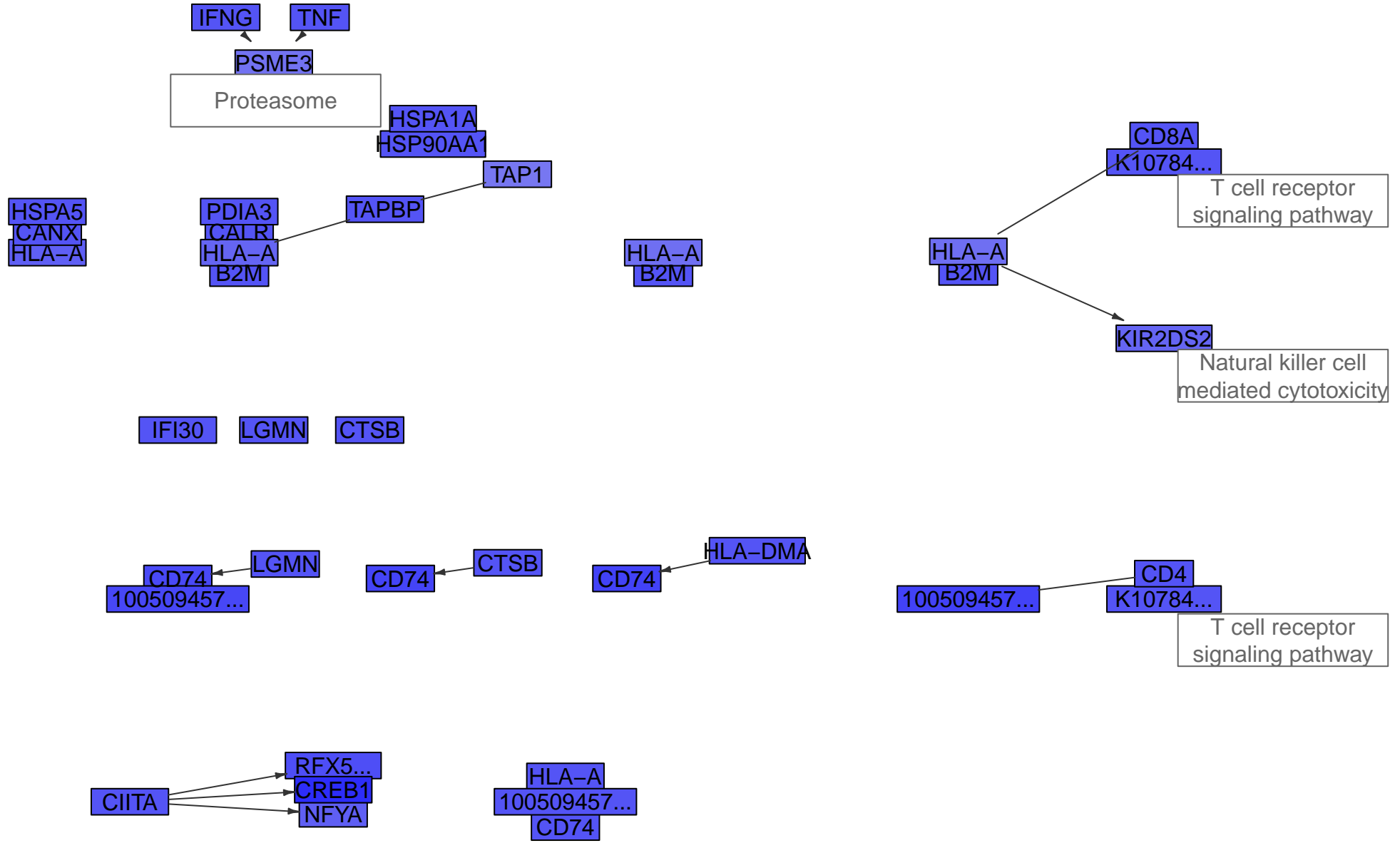
Antigen processing and presentation  
MPI-050



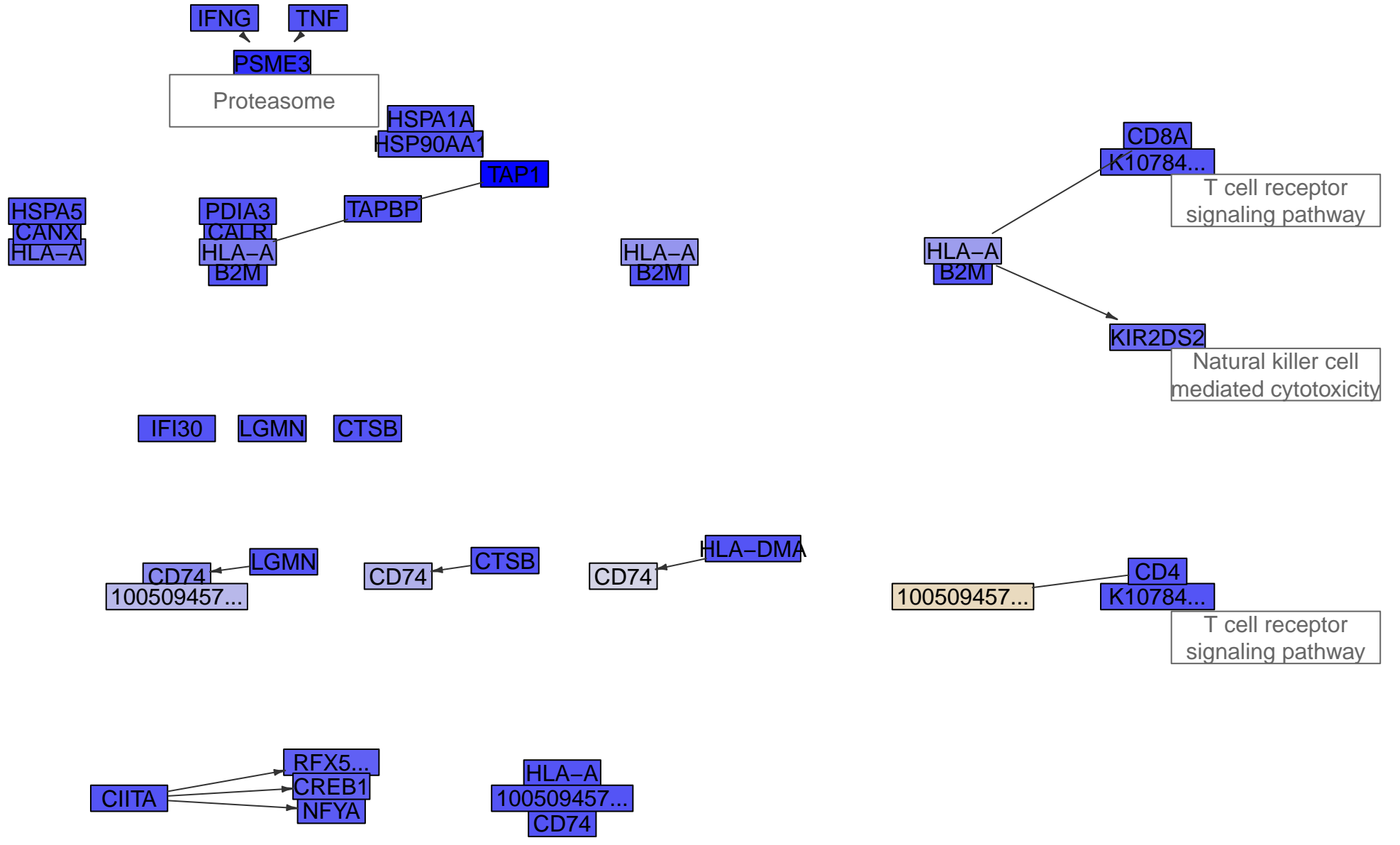
Antigen processing and presentation  
MPI-051



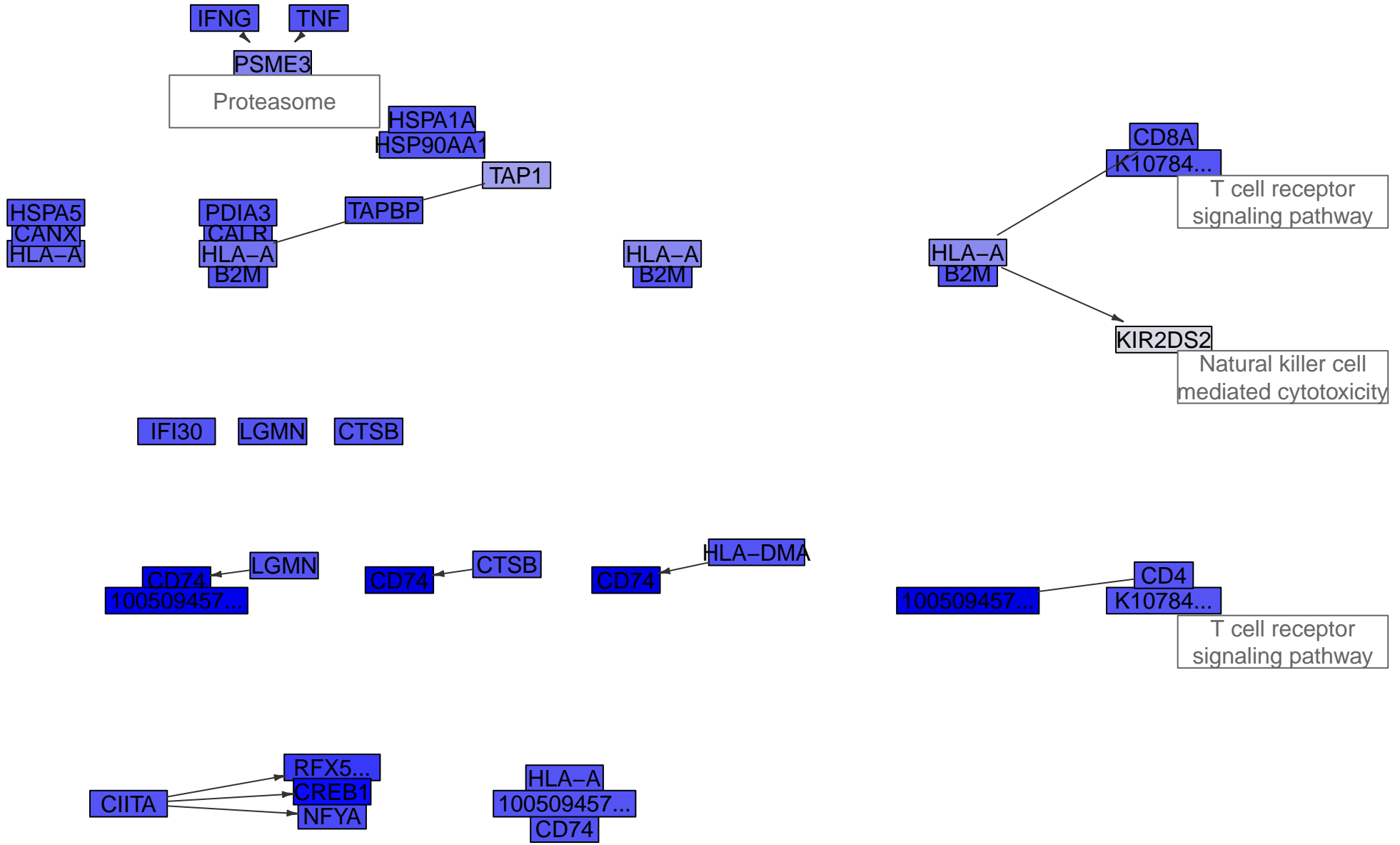
Antigen processing and presentation  
MPI-054



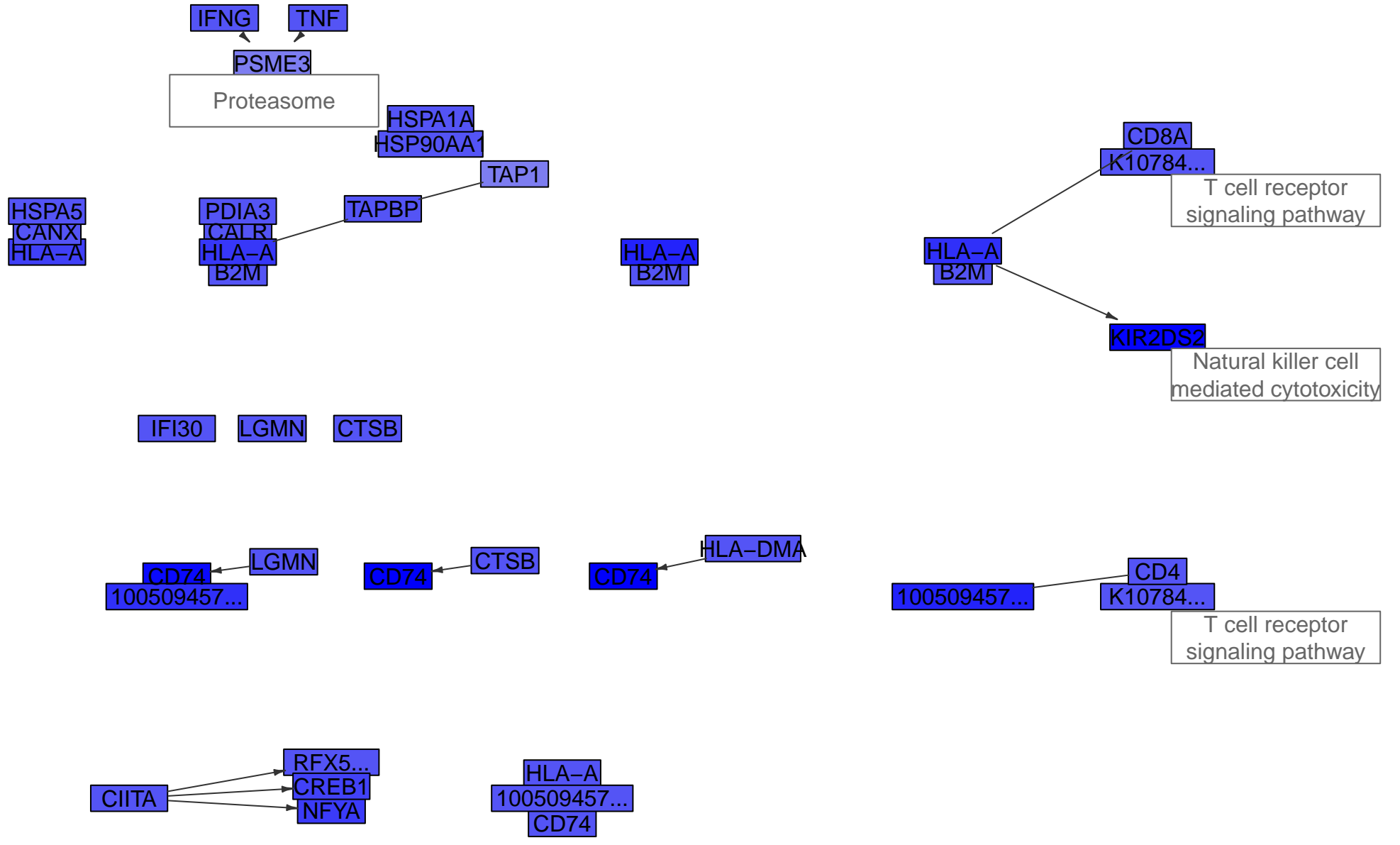
Antigen processing and presentation  
MPI-059



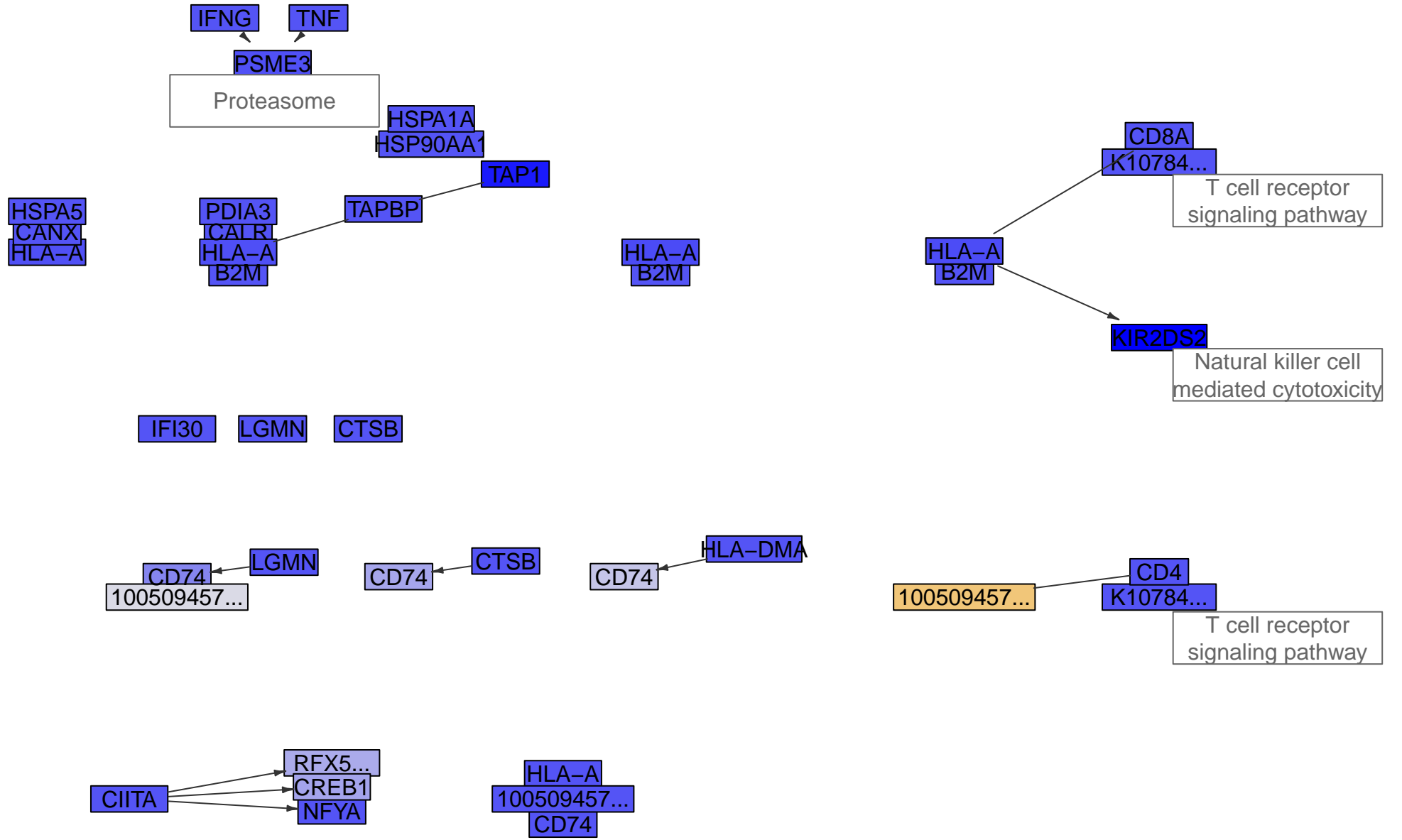
Antigen processing and presentation  
MPI-060



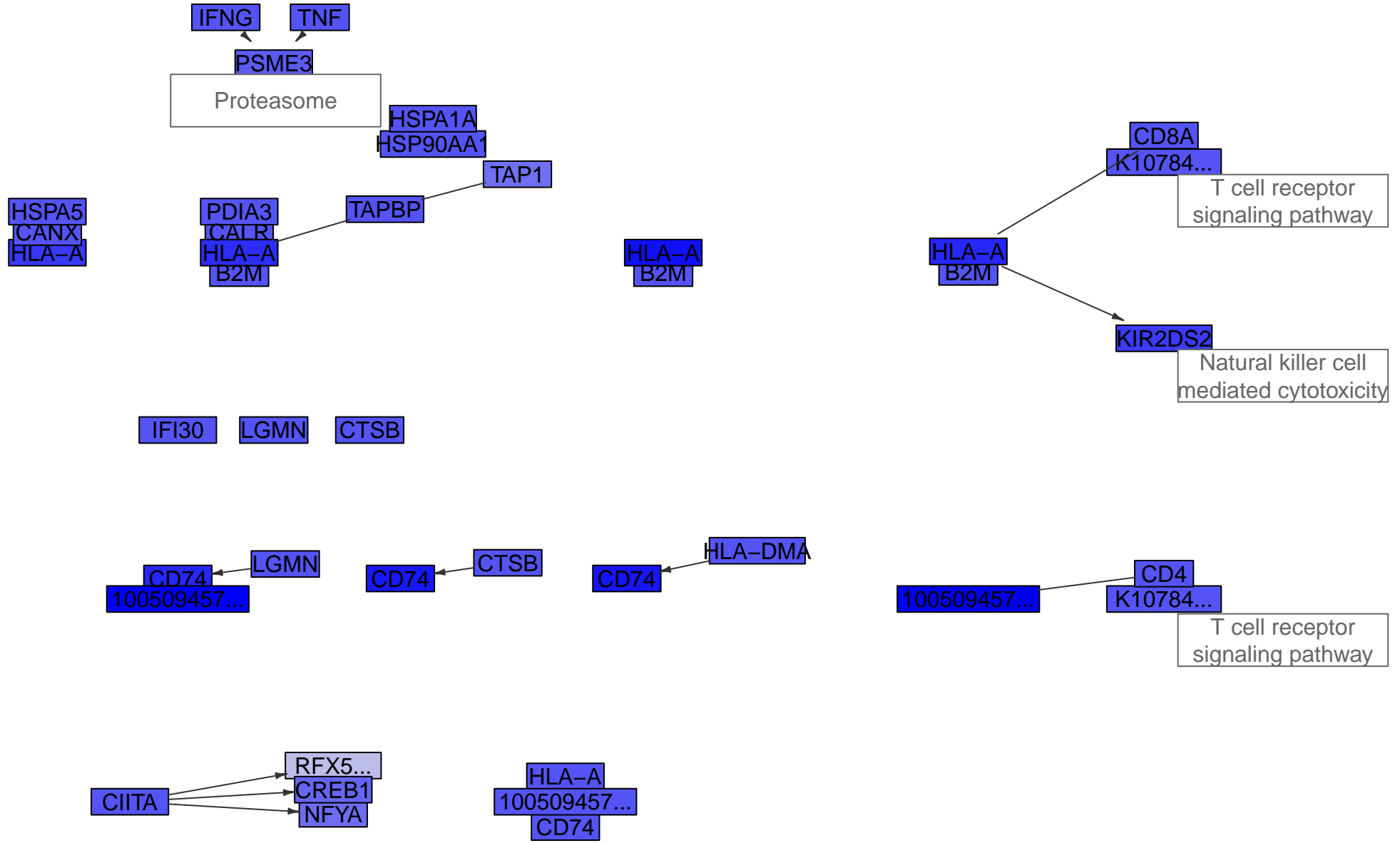
Antigen processing and presentation  
MPI-061



Antigen processing and presentation  
MPI-064

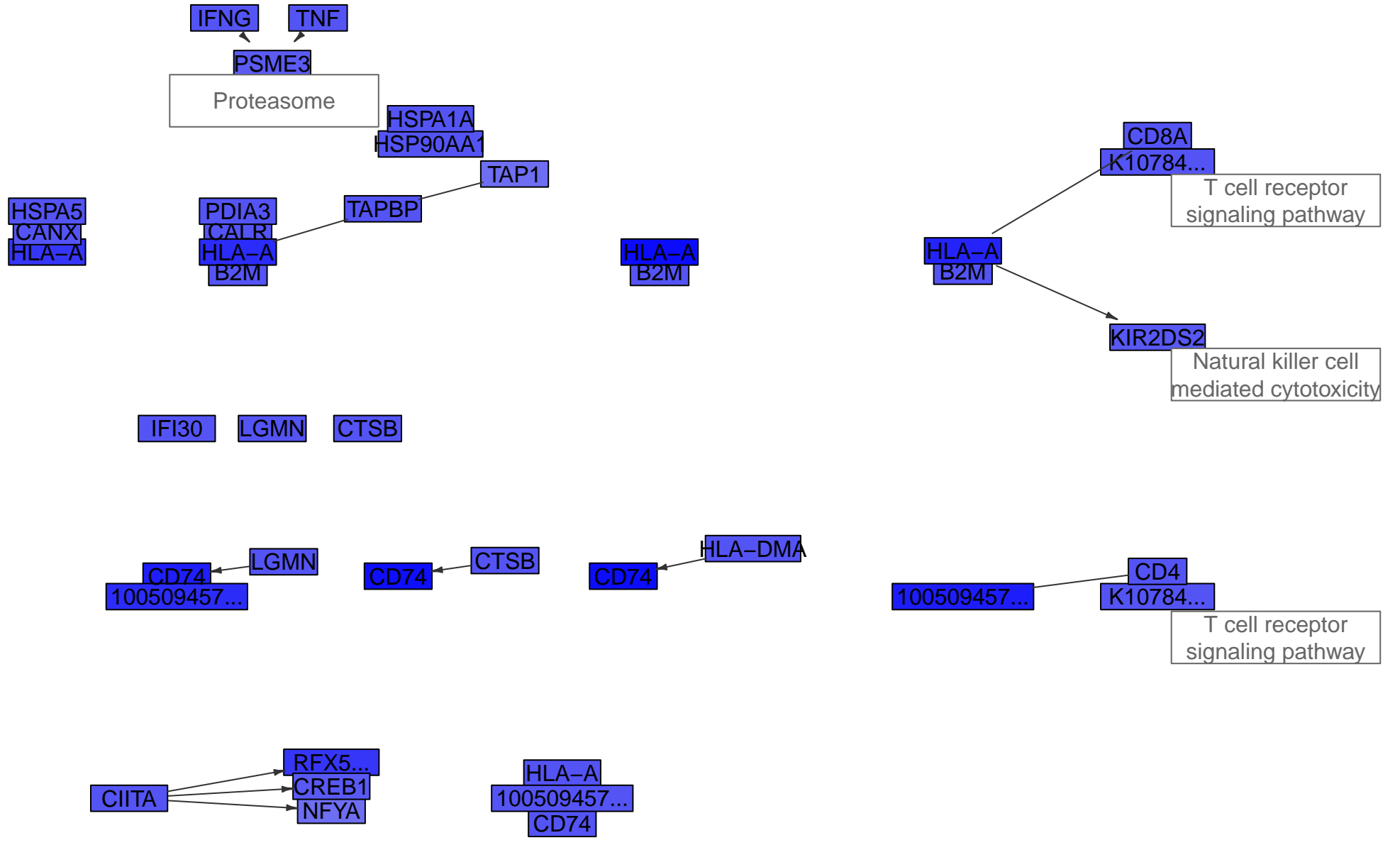


Antigen processing and presentation  
MPI-070

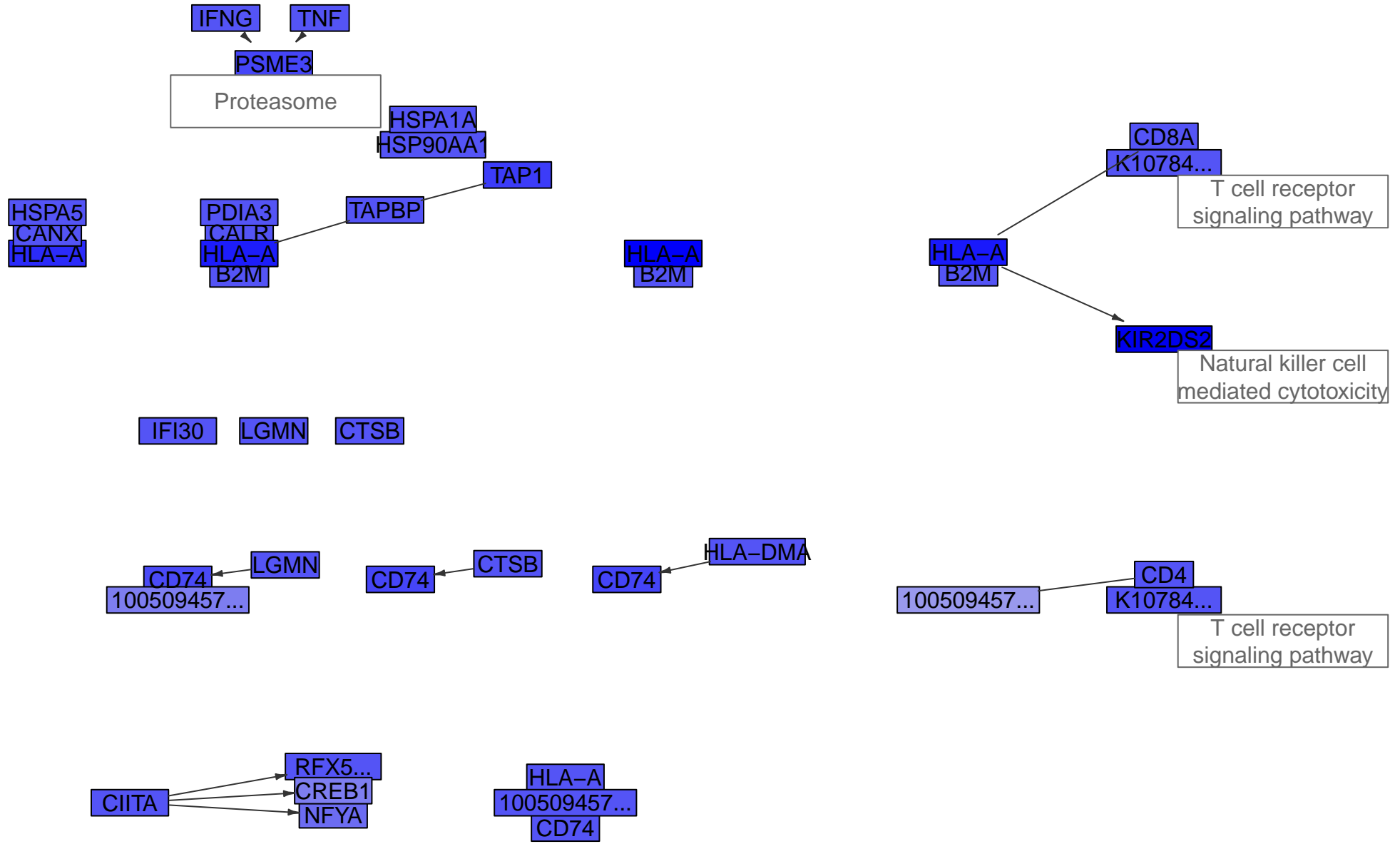




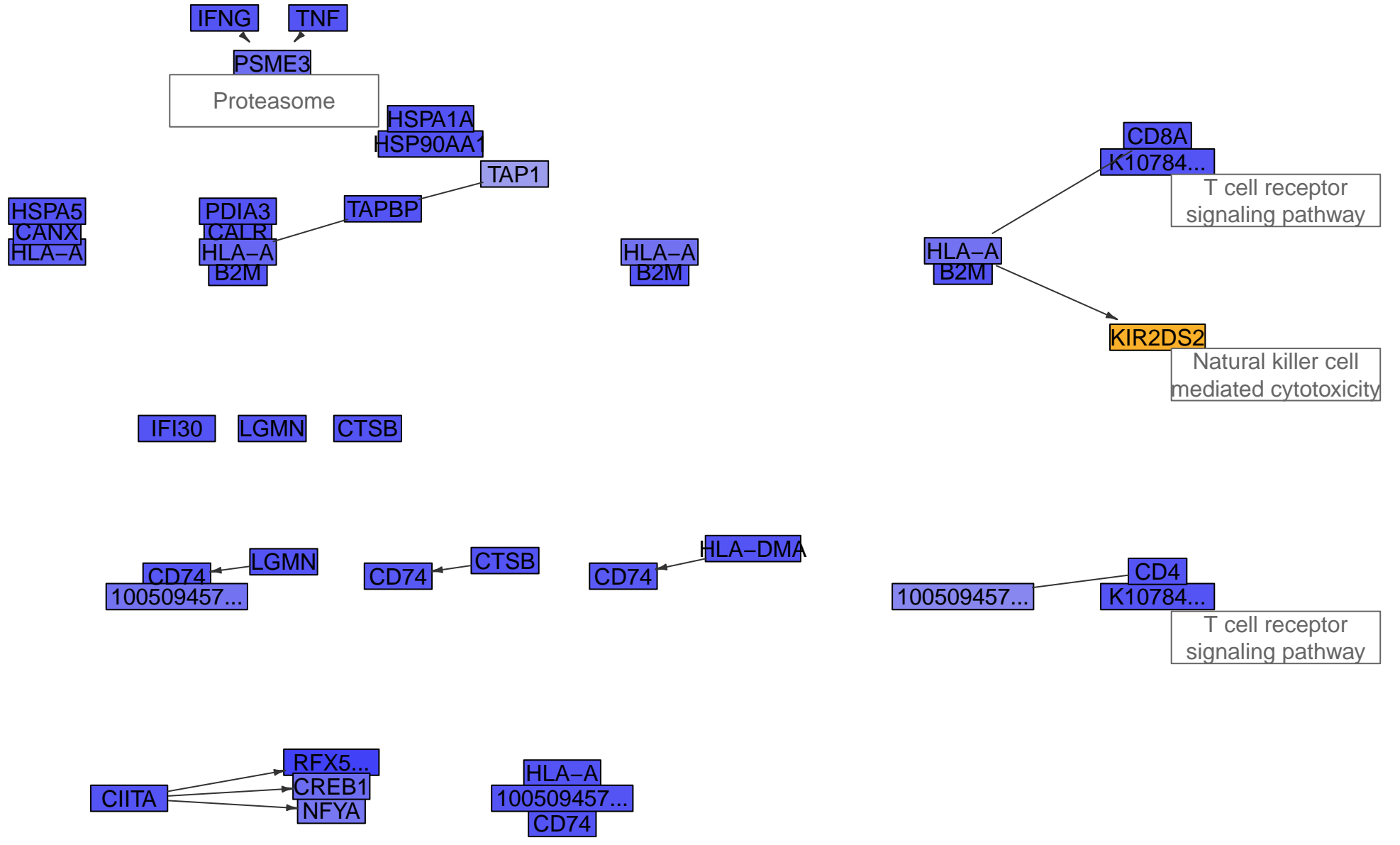
Antigen processing and presentation  
MPI-072



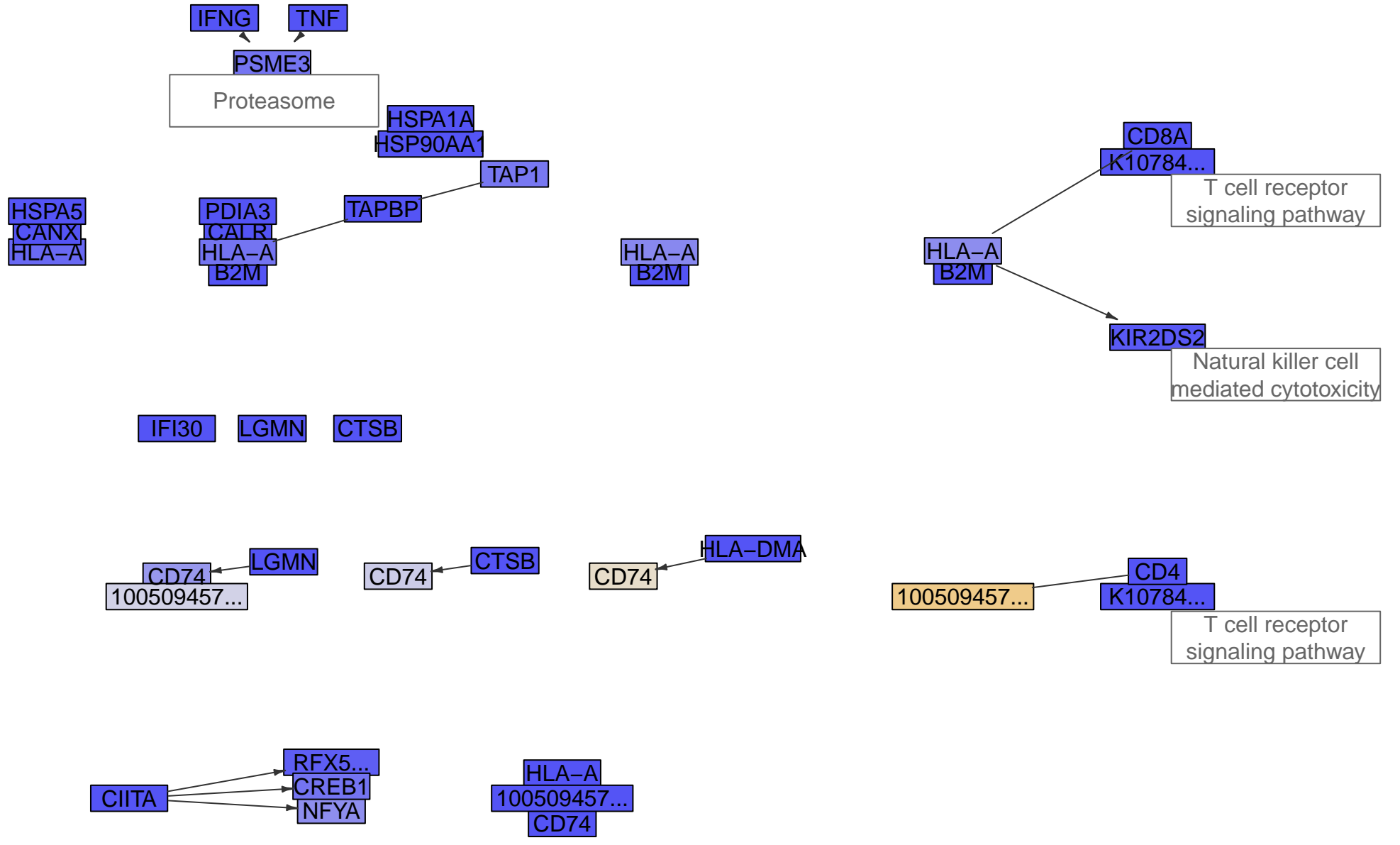
Antigen processing and presentation  
MPI-093



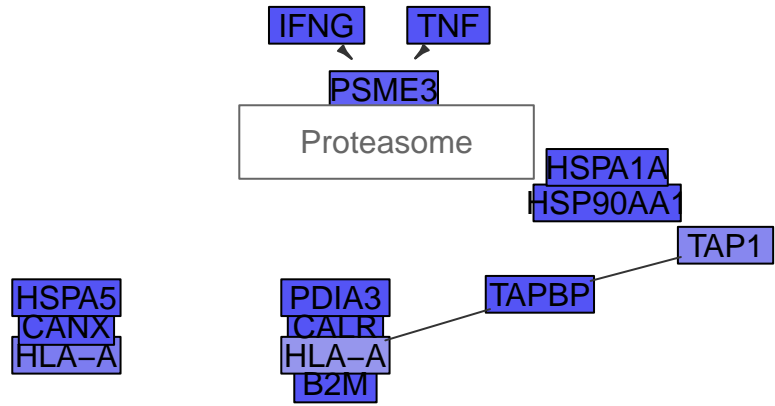
Antigen processing and presentation  
MPI-094



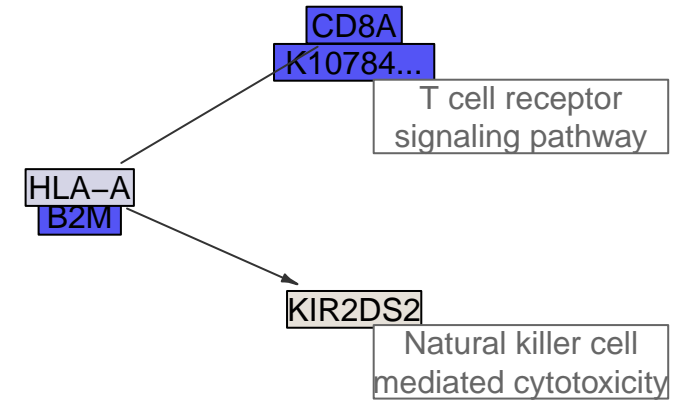
Antigen processing and presentation  
MPI-099



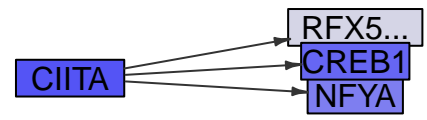
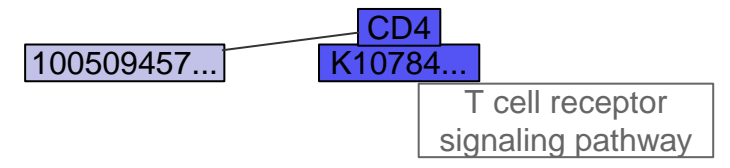
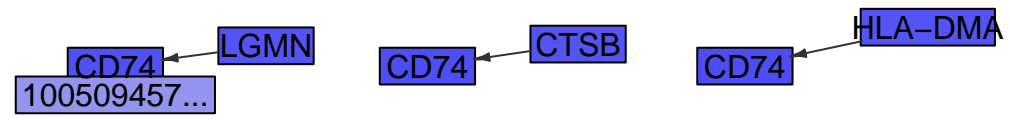
Antigen processing and presentation  
MPI-104



HLA-A  
B2M

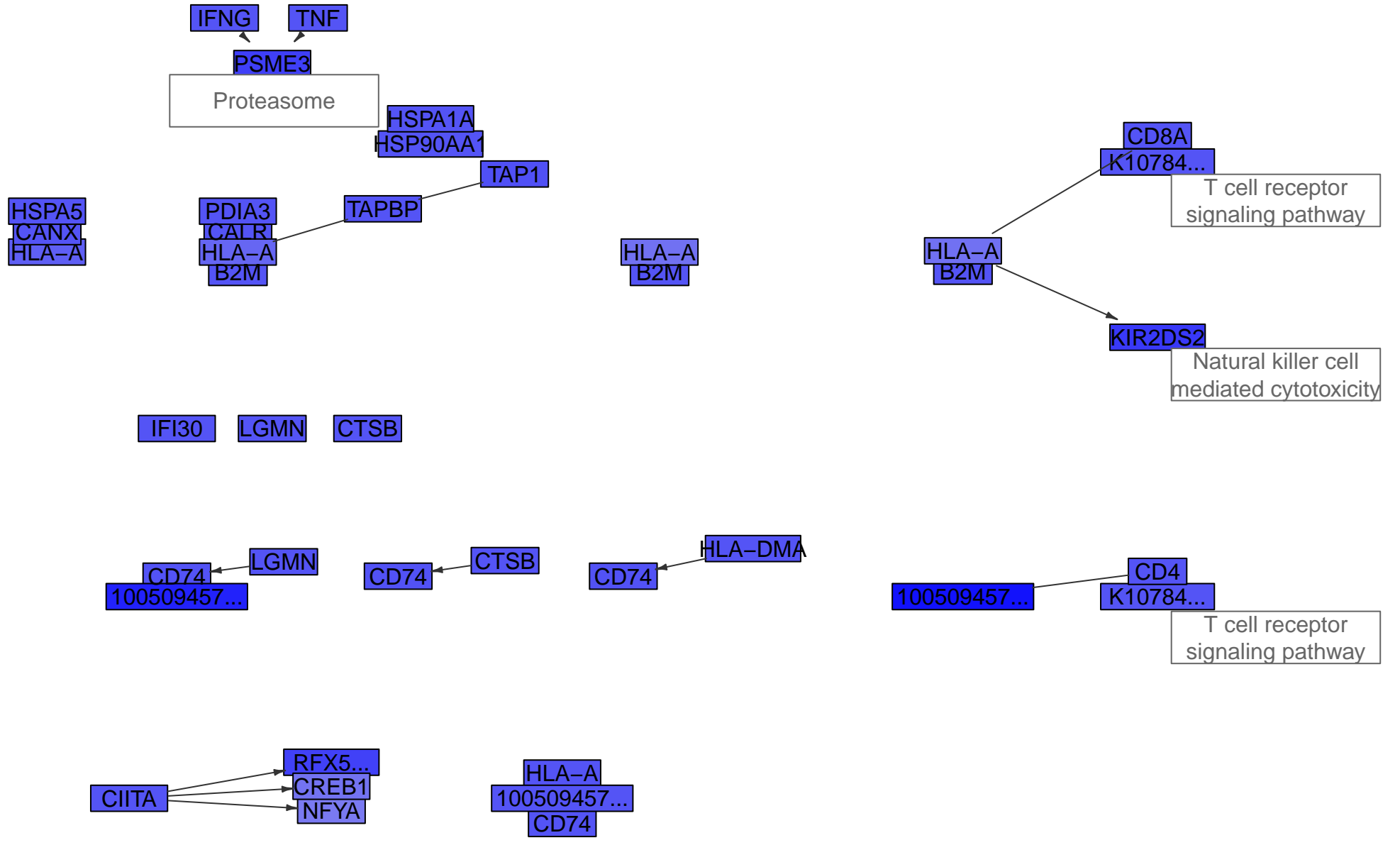


IFI30    LGMN    CTSB

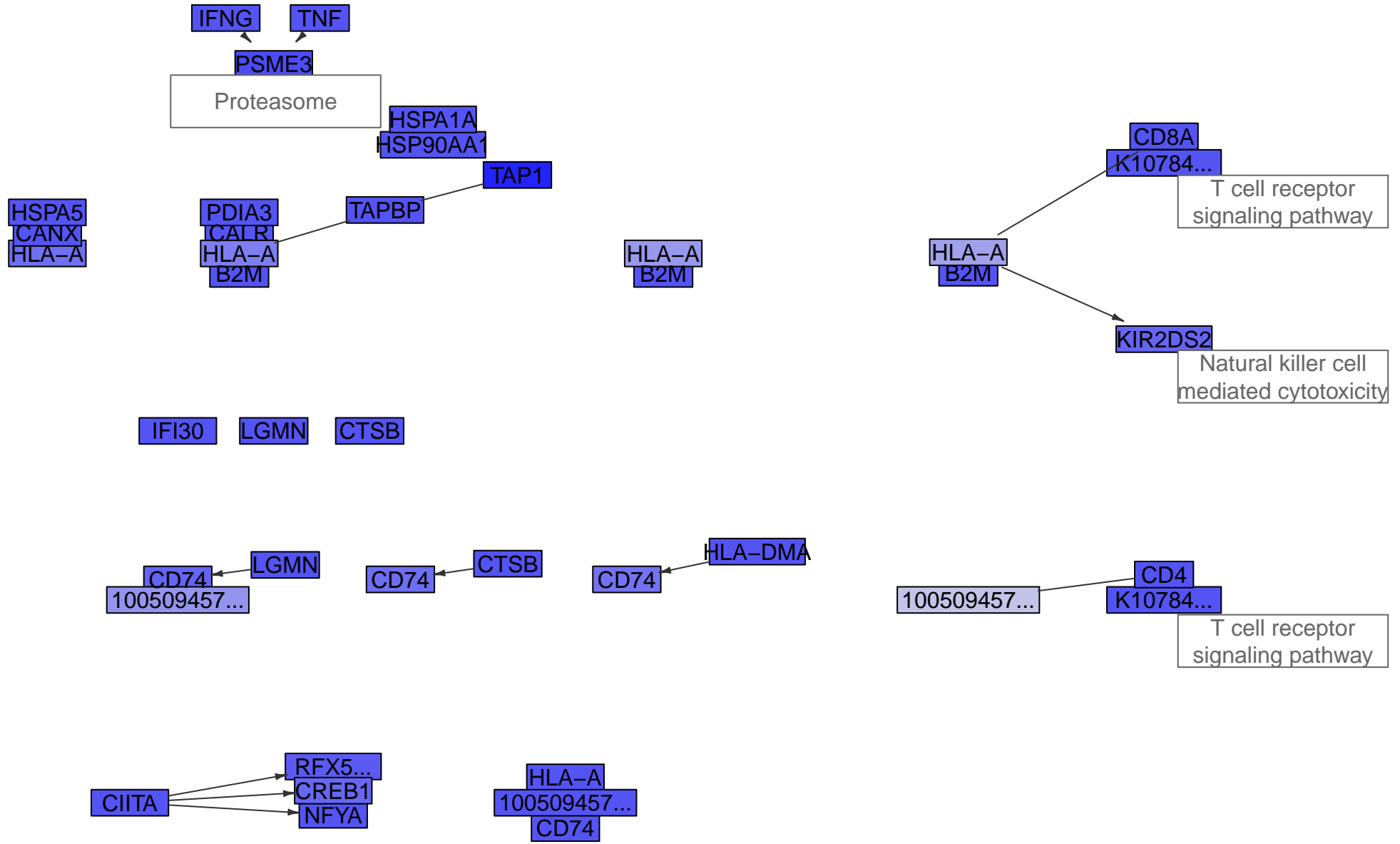


HLA-A  
100509457...  
CD74

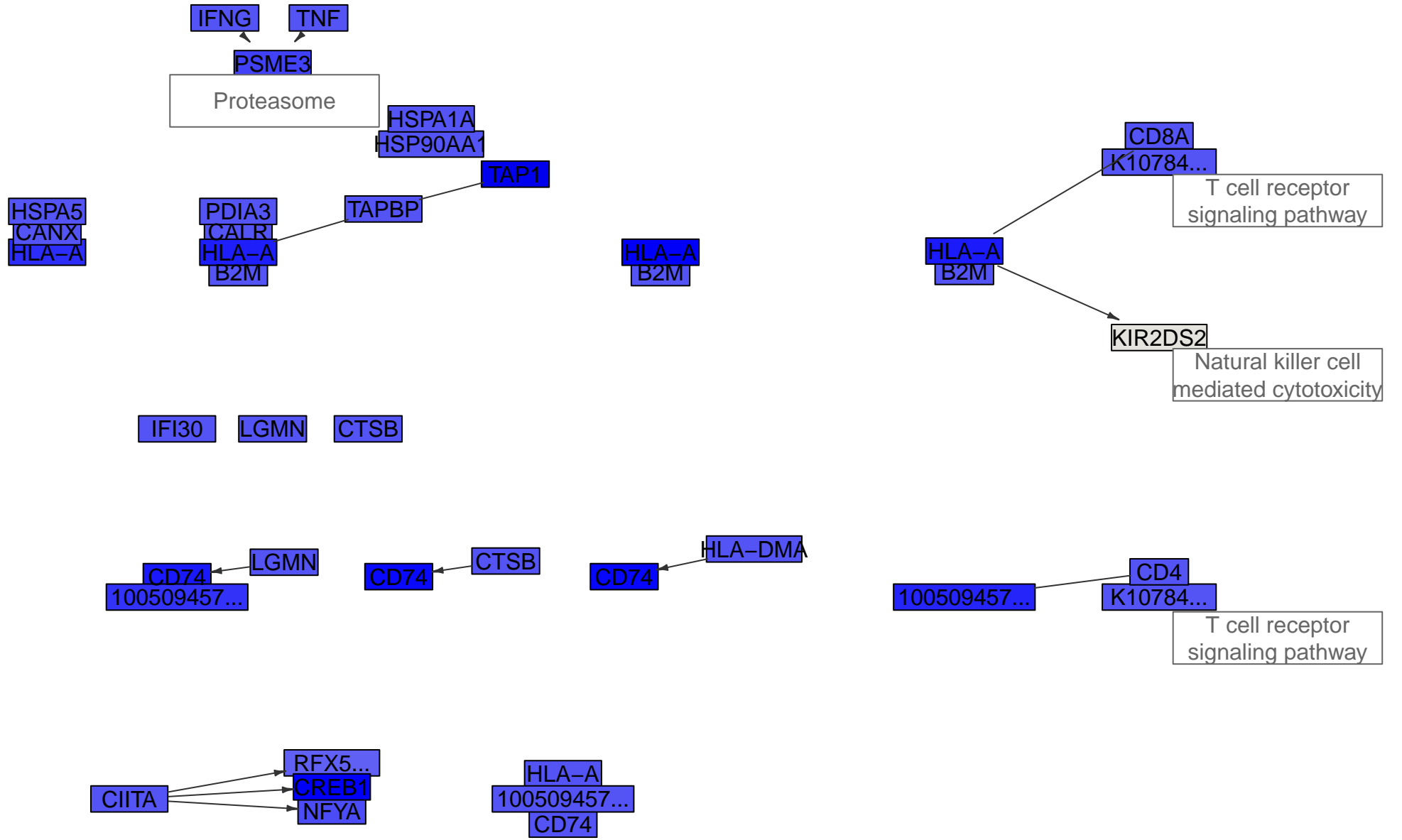
Antigen processing and presentation  
MPI-107



Antigen processing and presentation  
MPI-112

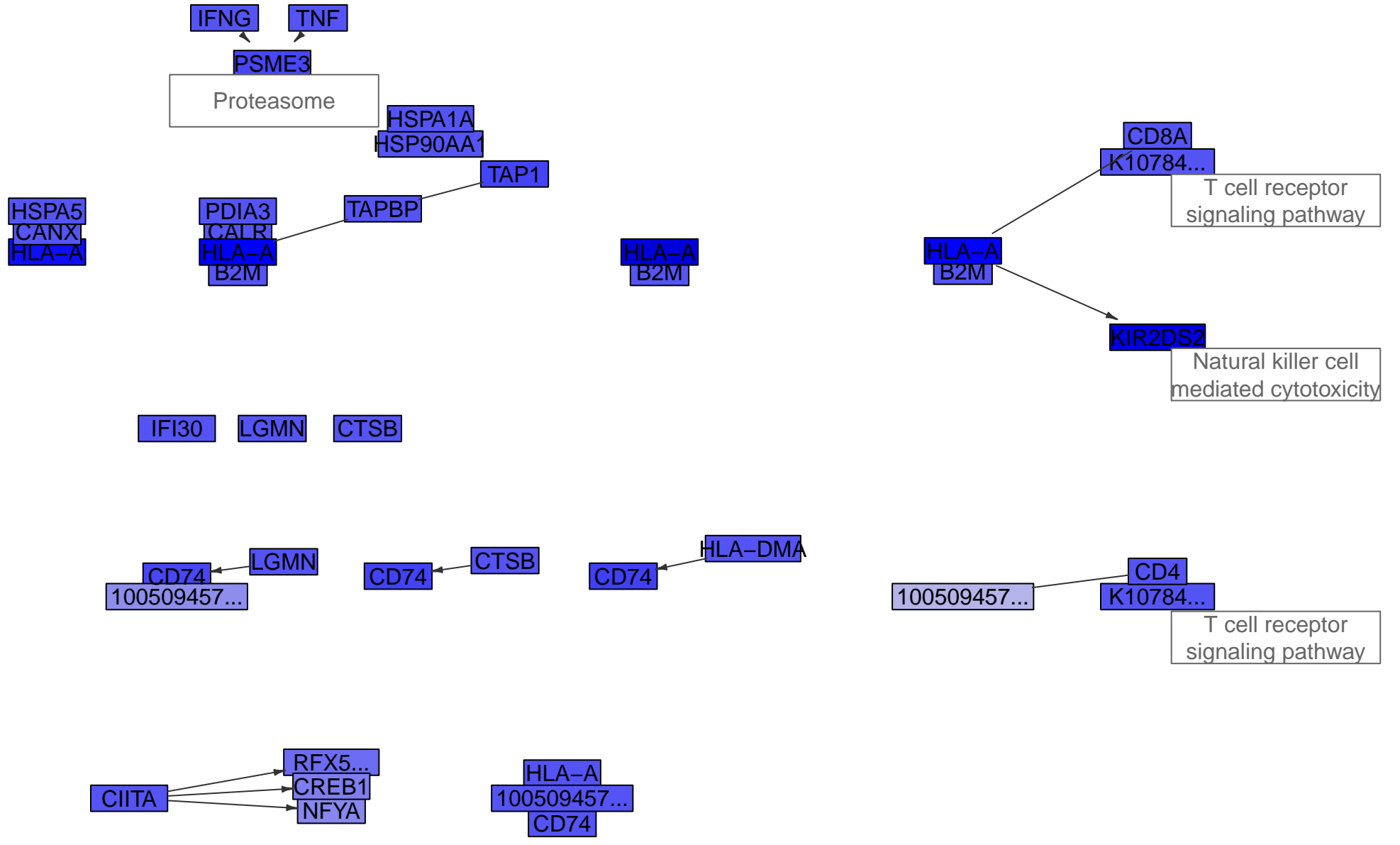


Antigen processing and presentation  
MPI-116

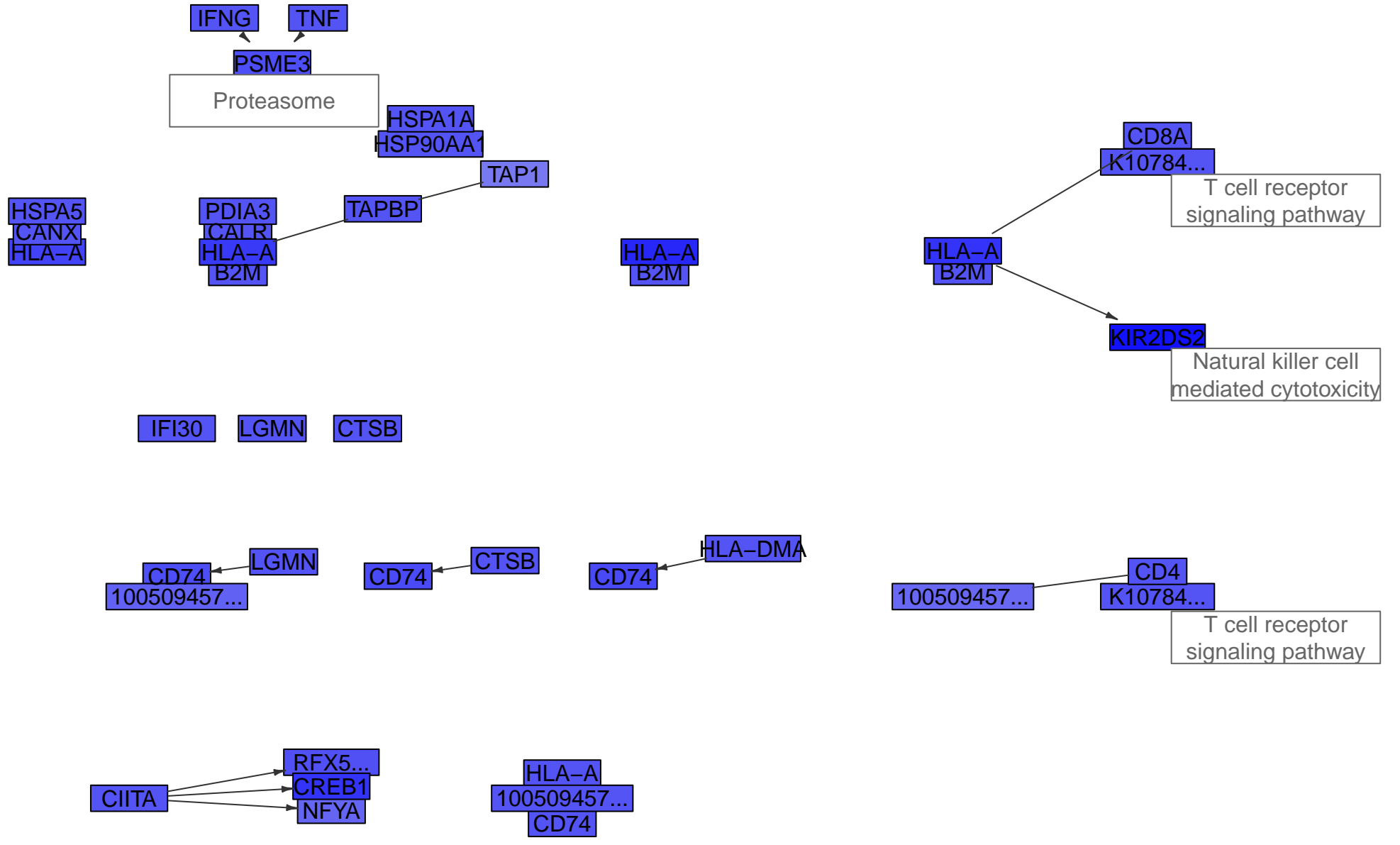




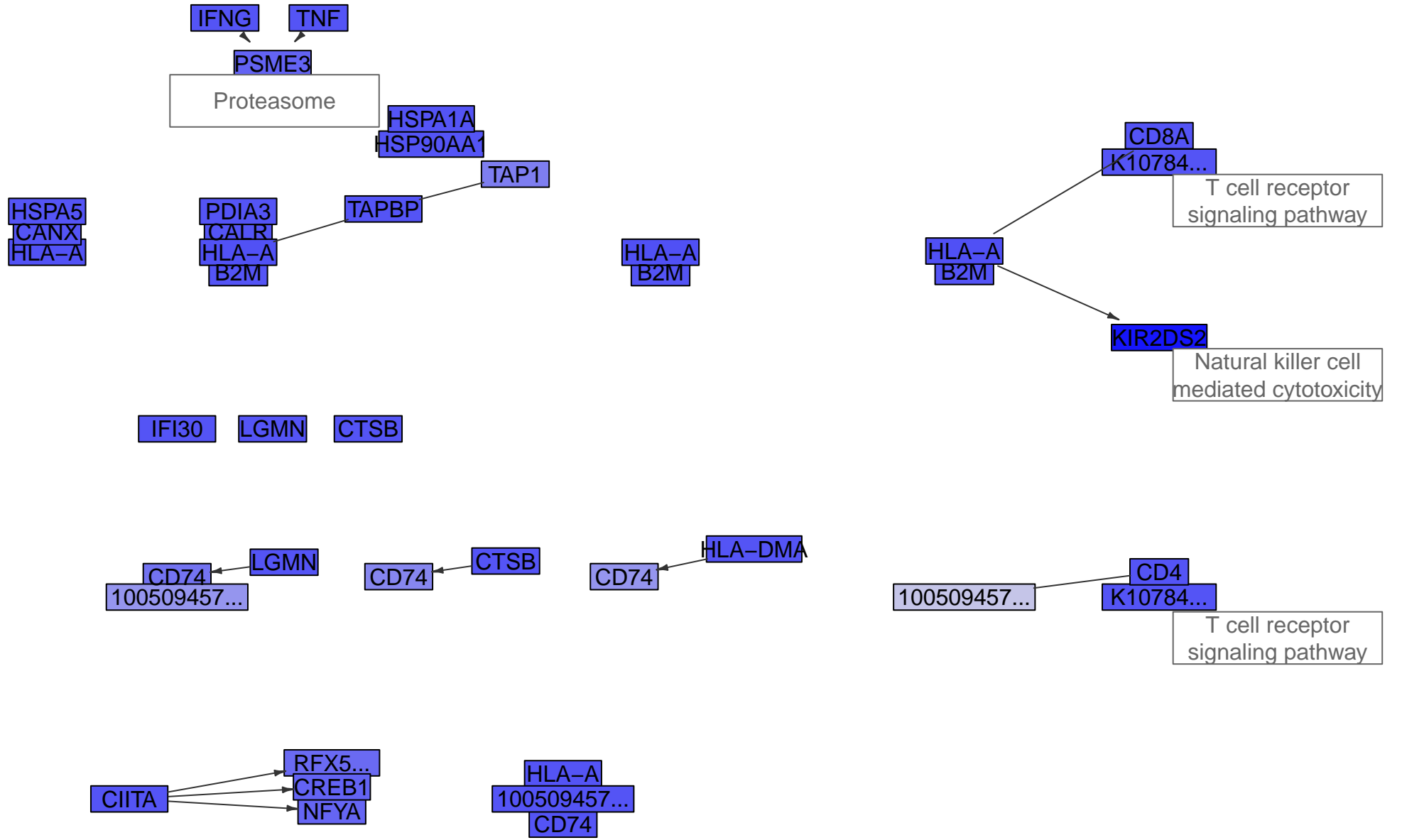
Antigen processing and presentation  
MPI-117



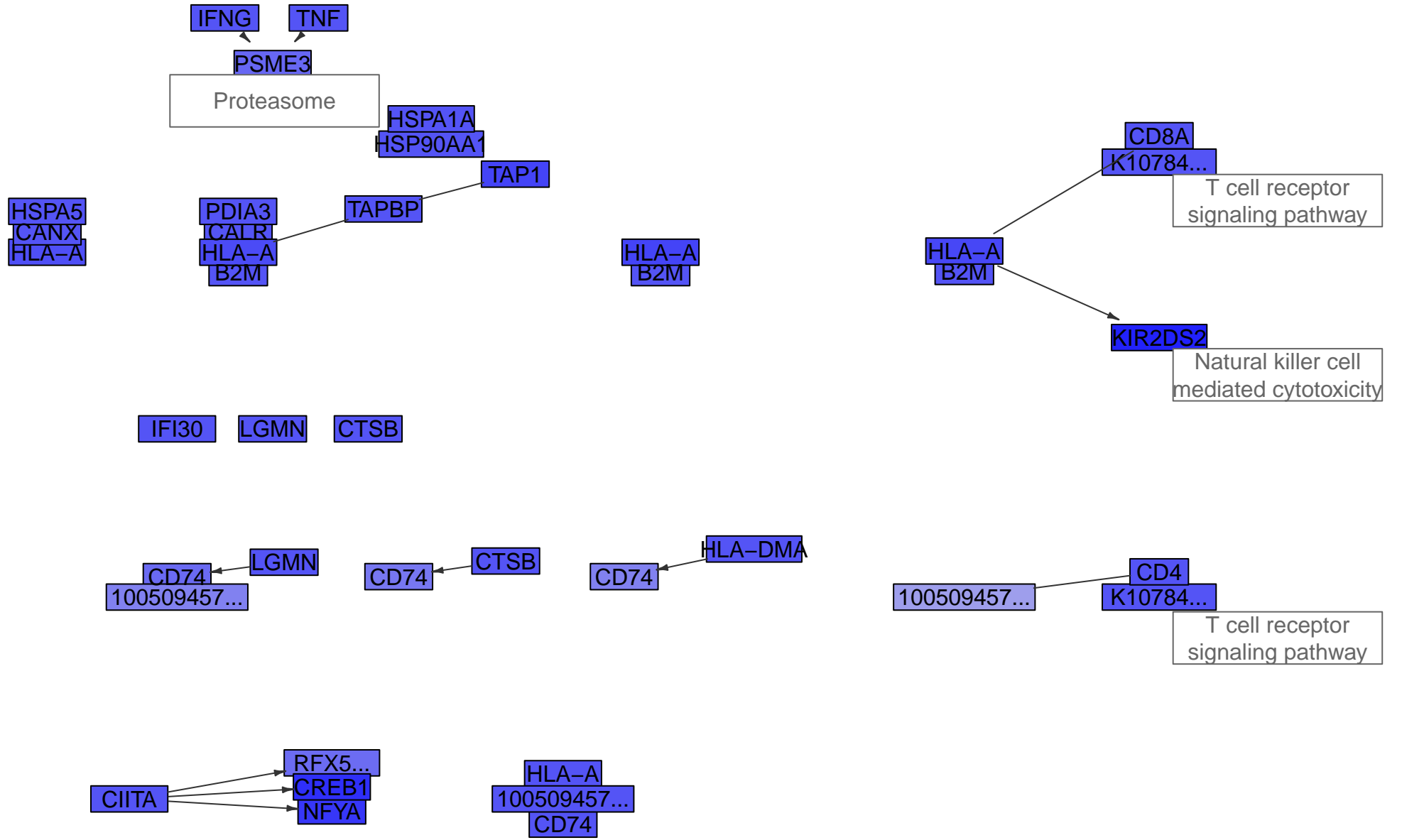
Antigen processing and presentation  
MPI-120



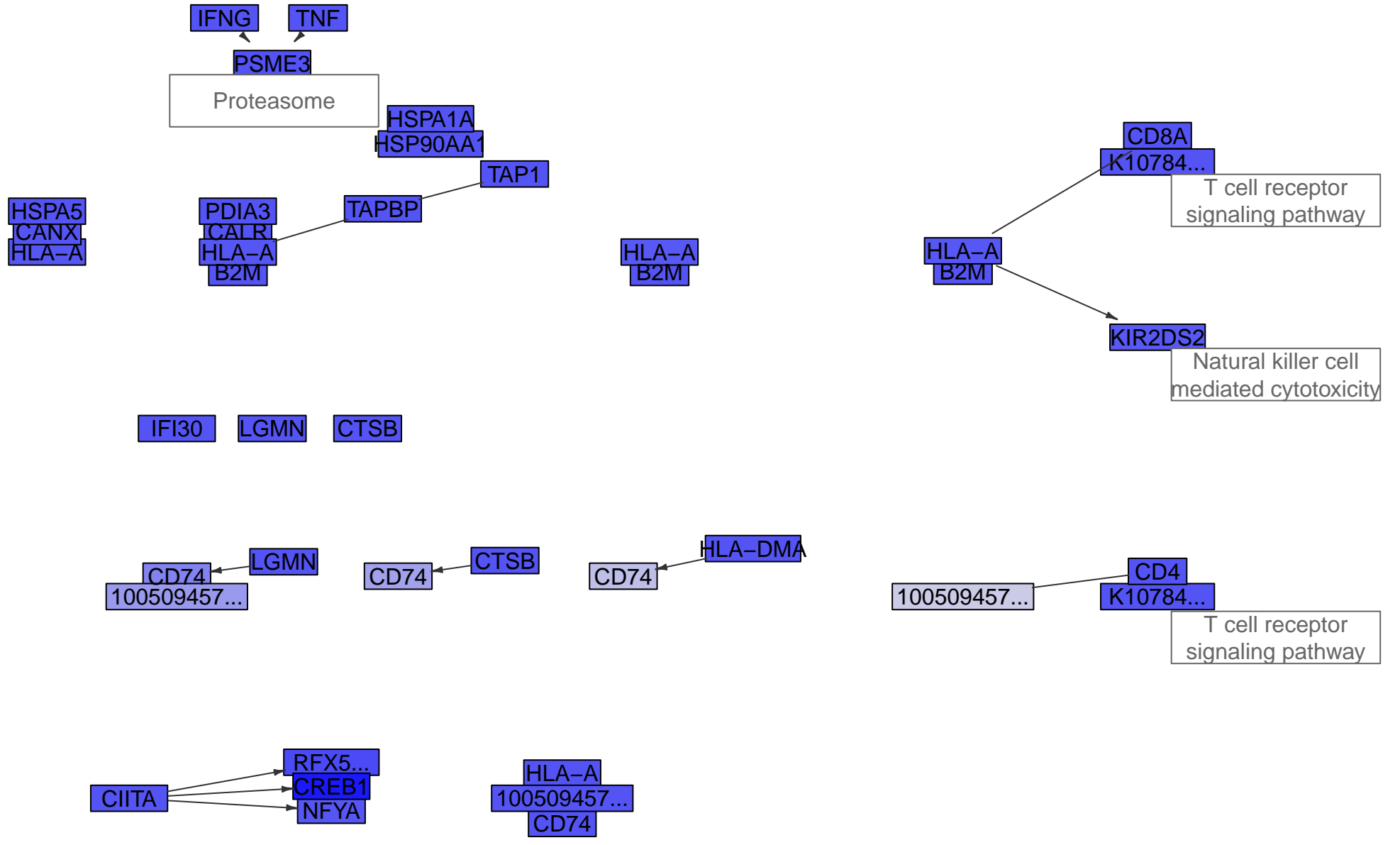
Antigen processing and presentation  
MPI-121



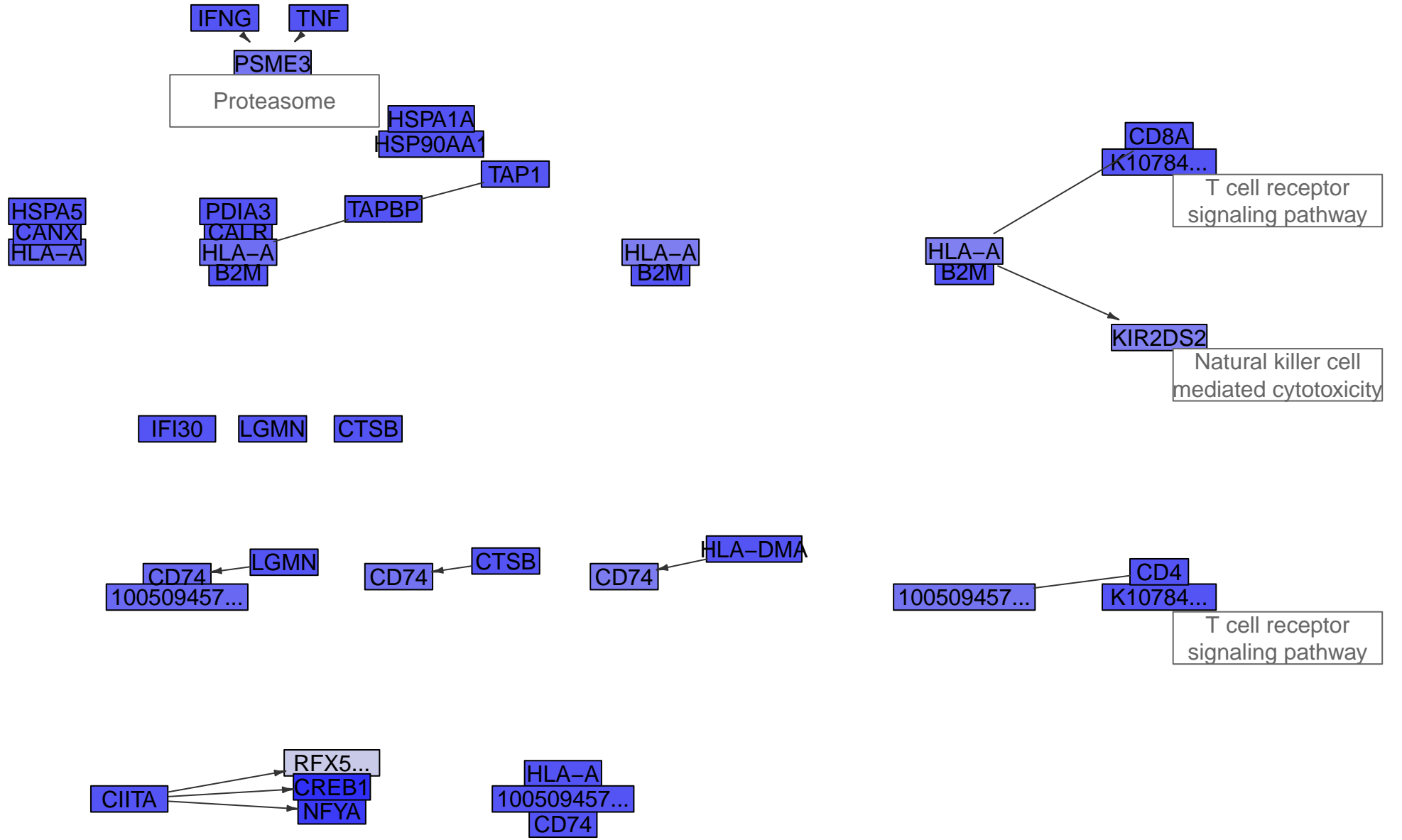
Antigen processing and presentation  
MPI-124



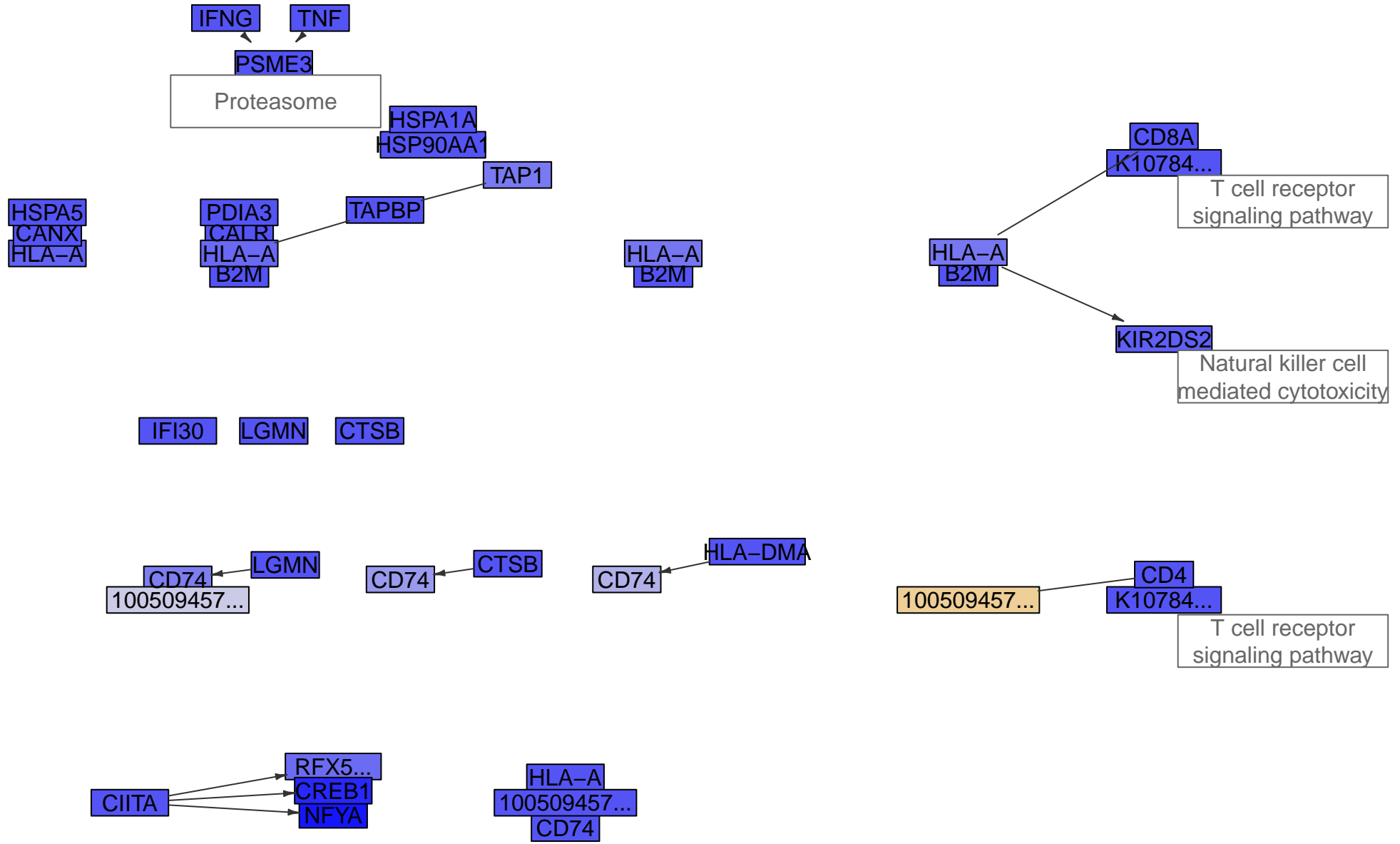
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MPI-126



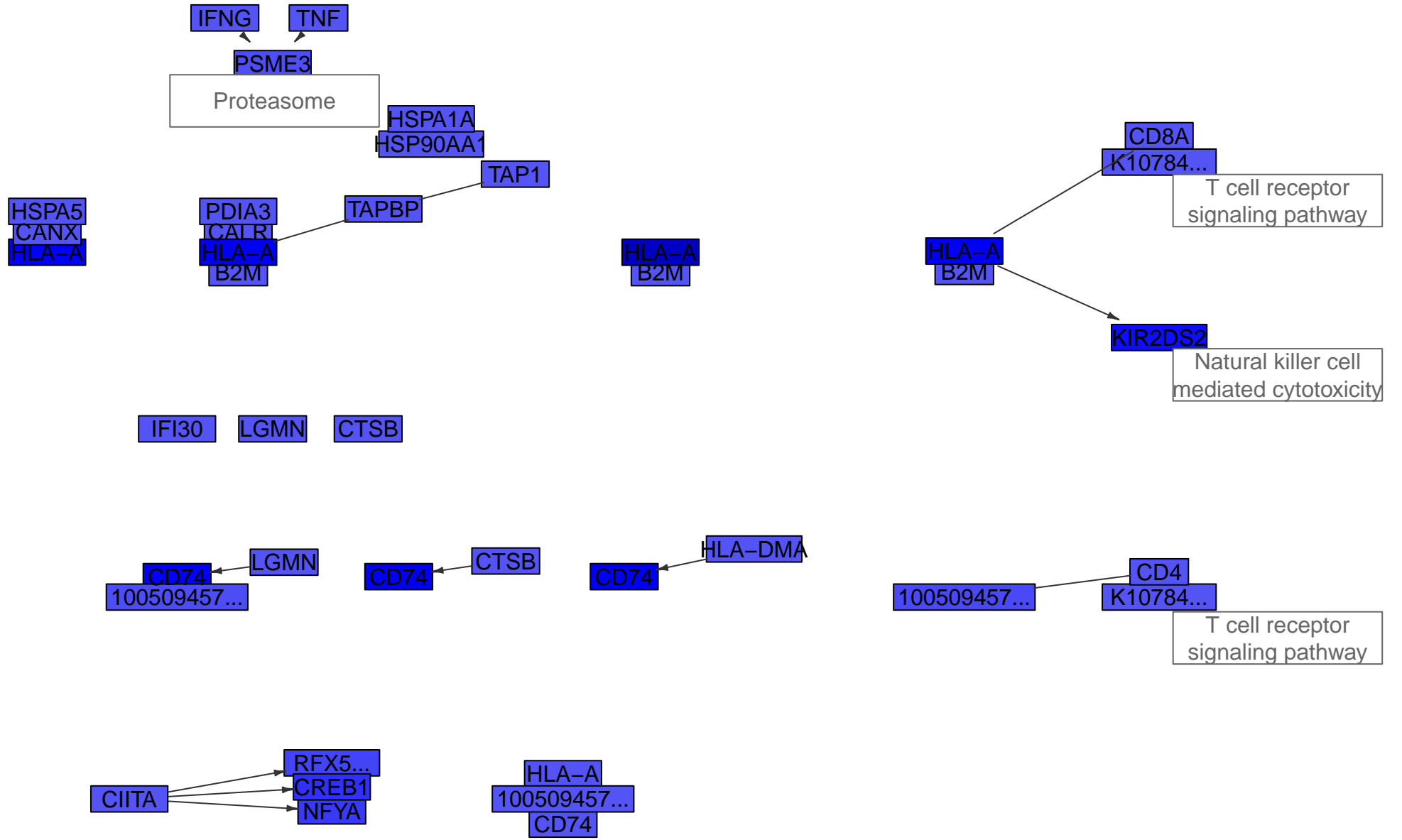
Antigen processing and presentation  
MPI-131



Antigen processing and presentation  
MPI-143

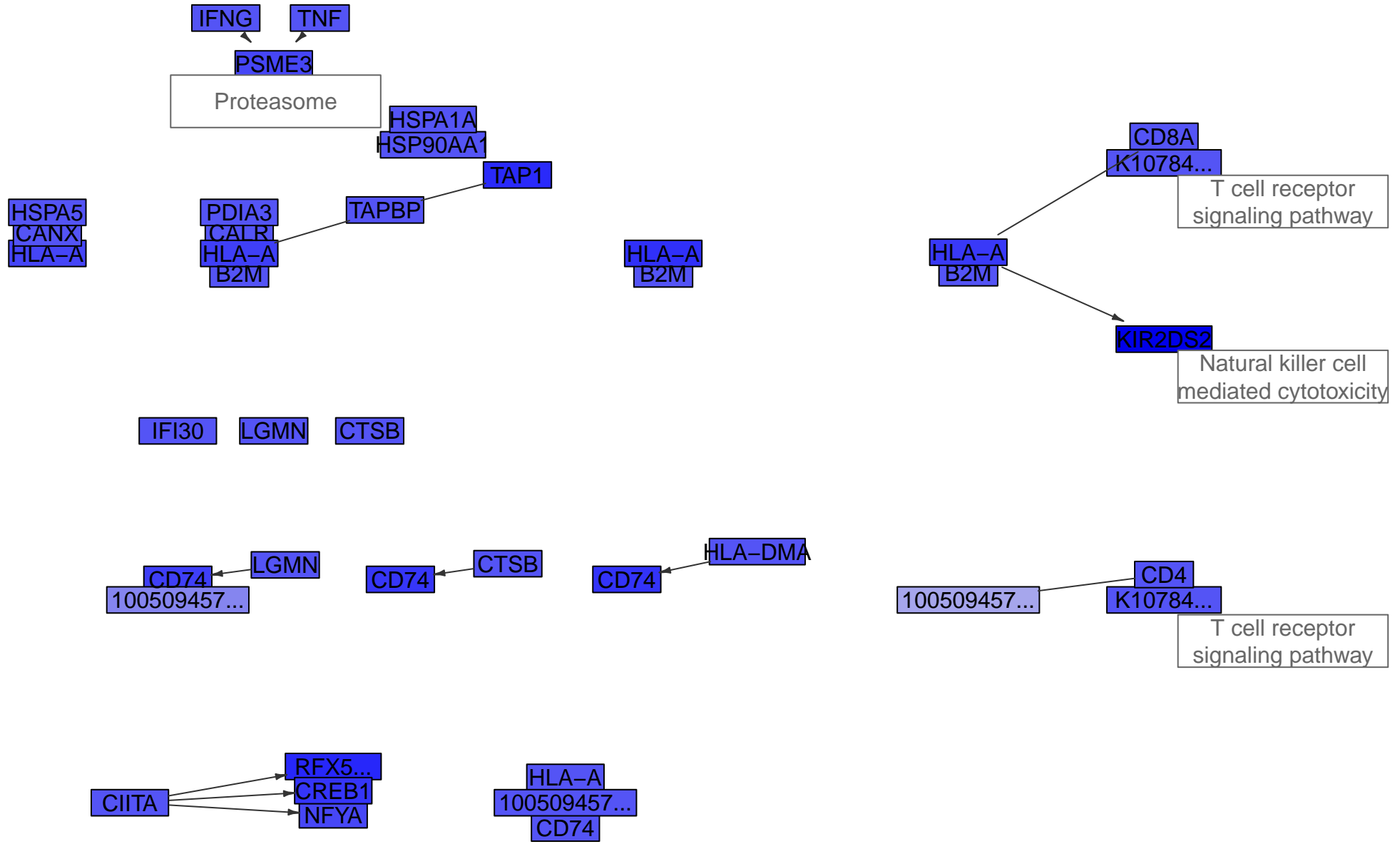


Antigen processing and presentation  
MPI-148

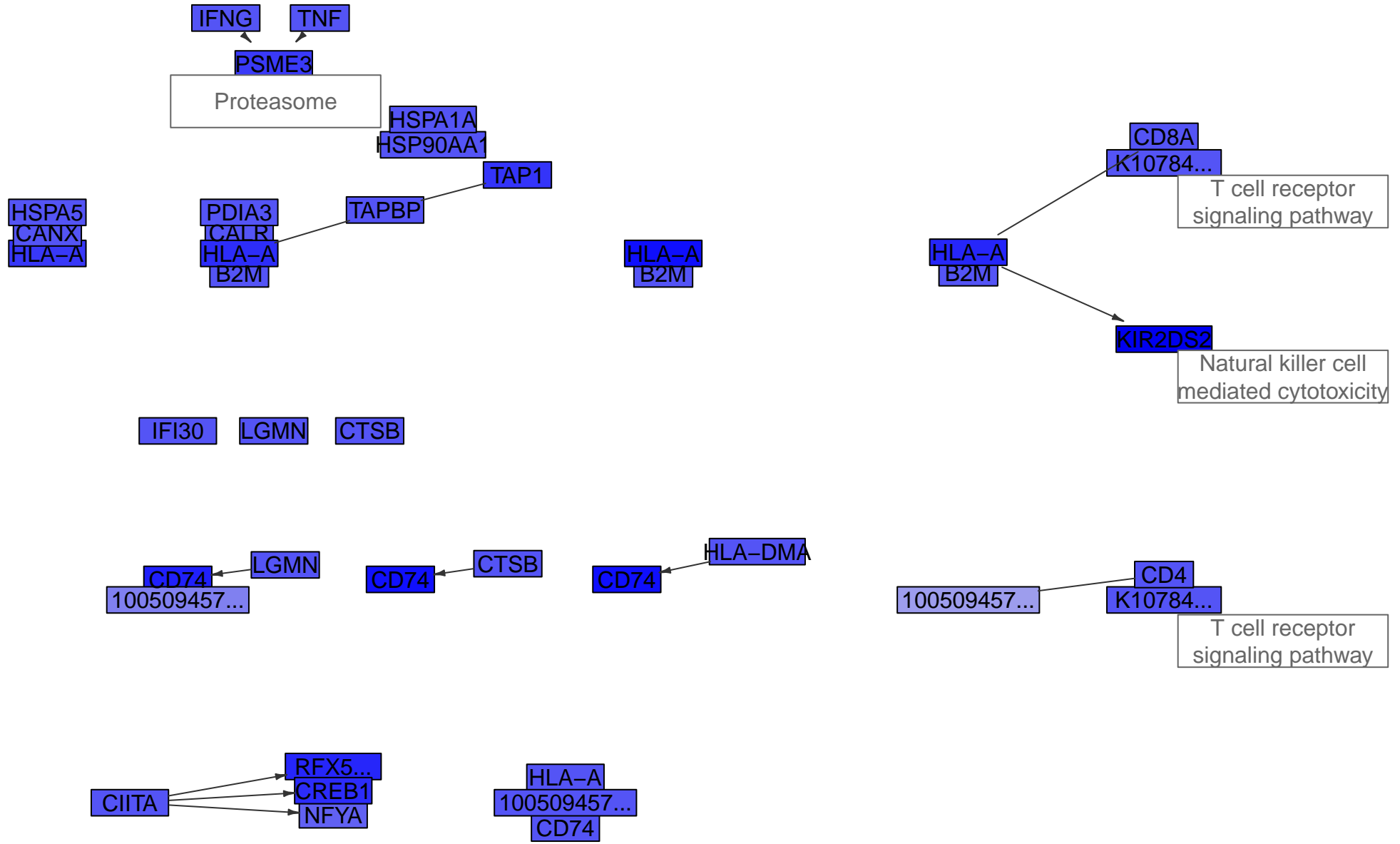




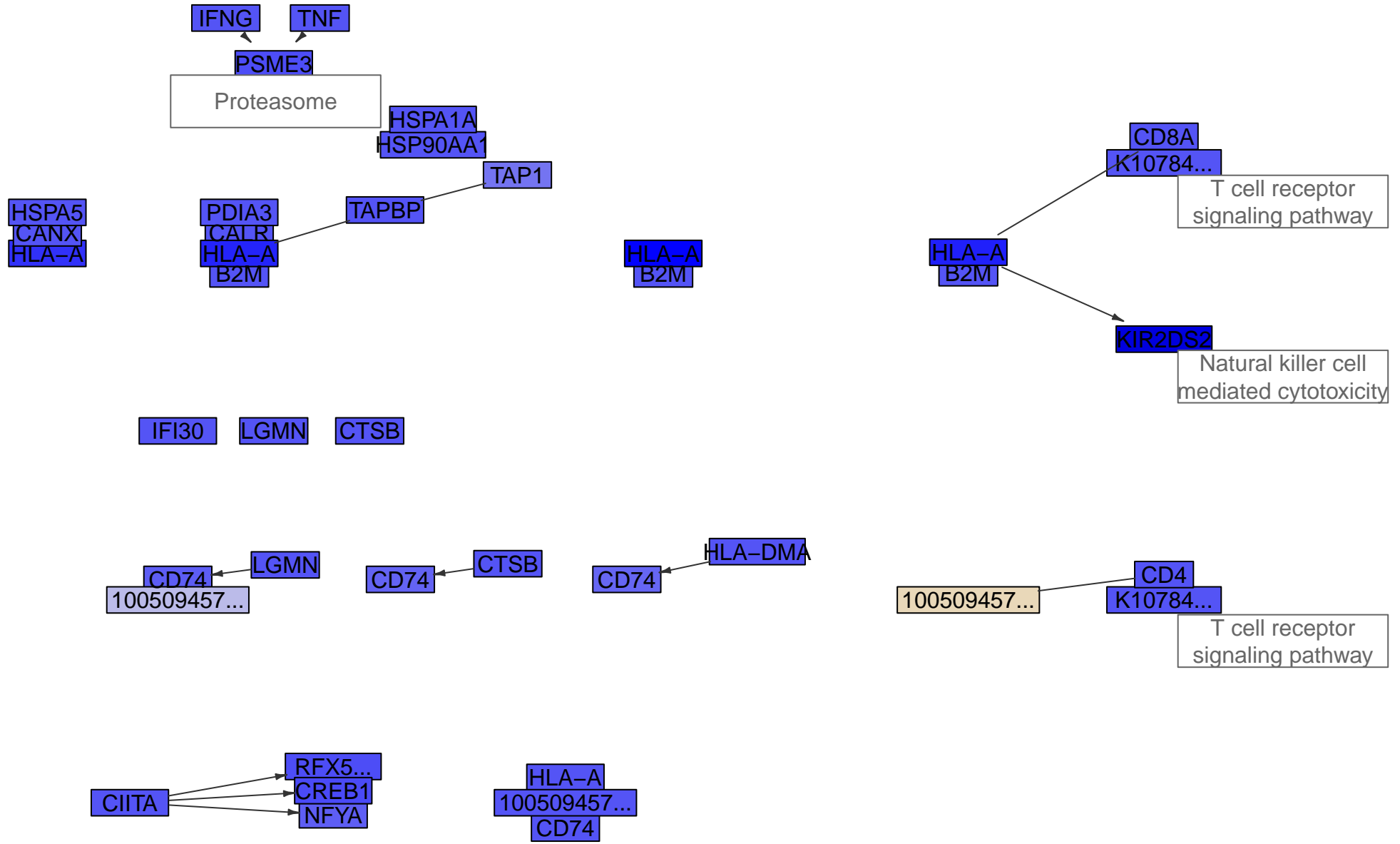
Antigen processing and presentation  
MPI-161



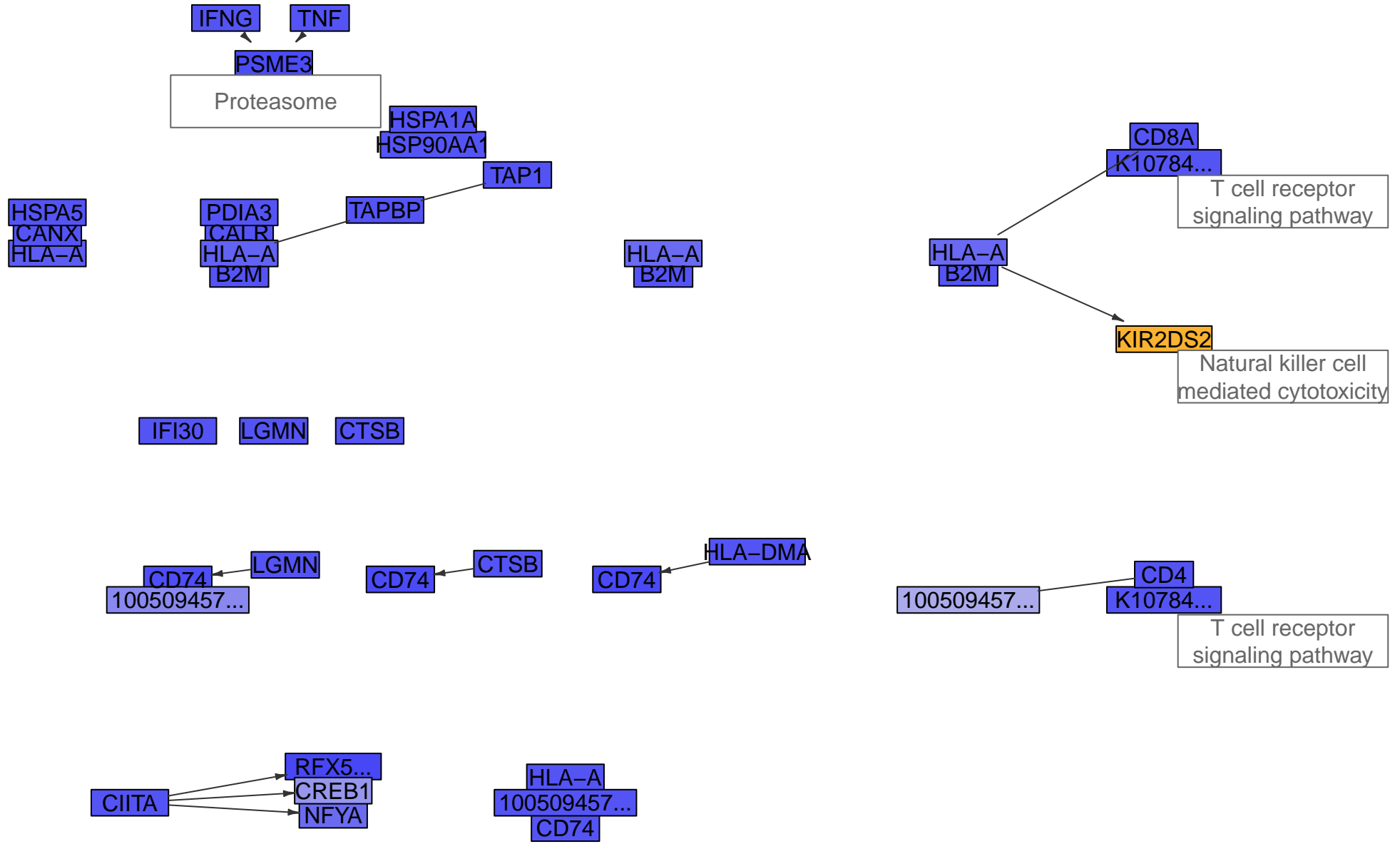
Antigen processing and presentation  
MPI-162



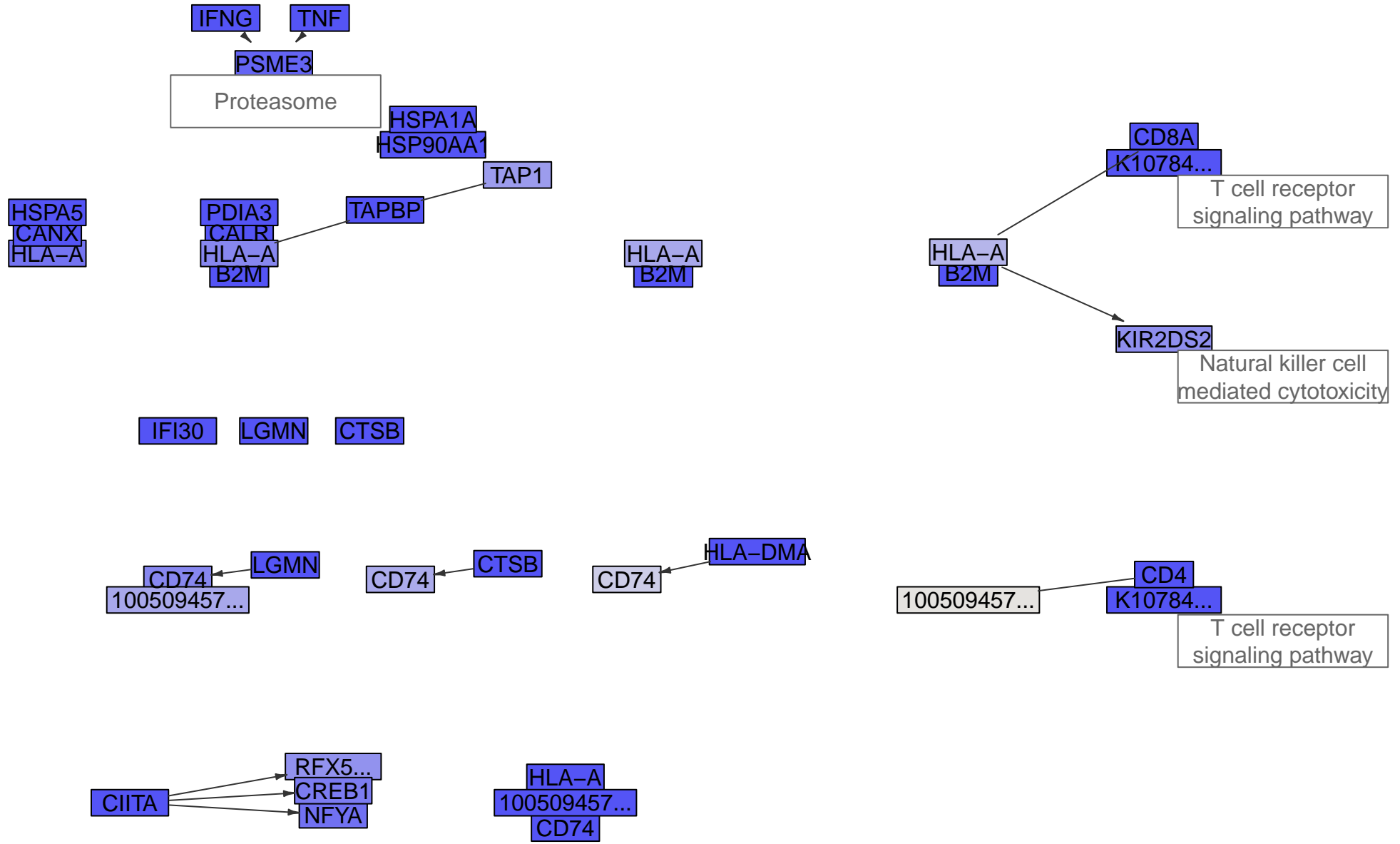
Antigen processing and presentation  
MPI-165



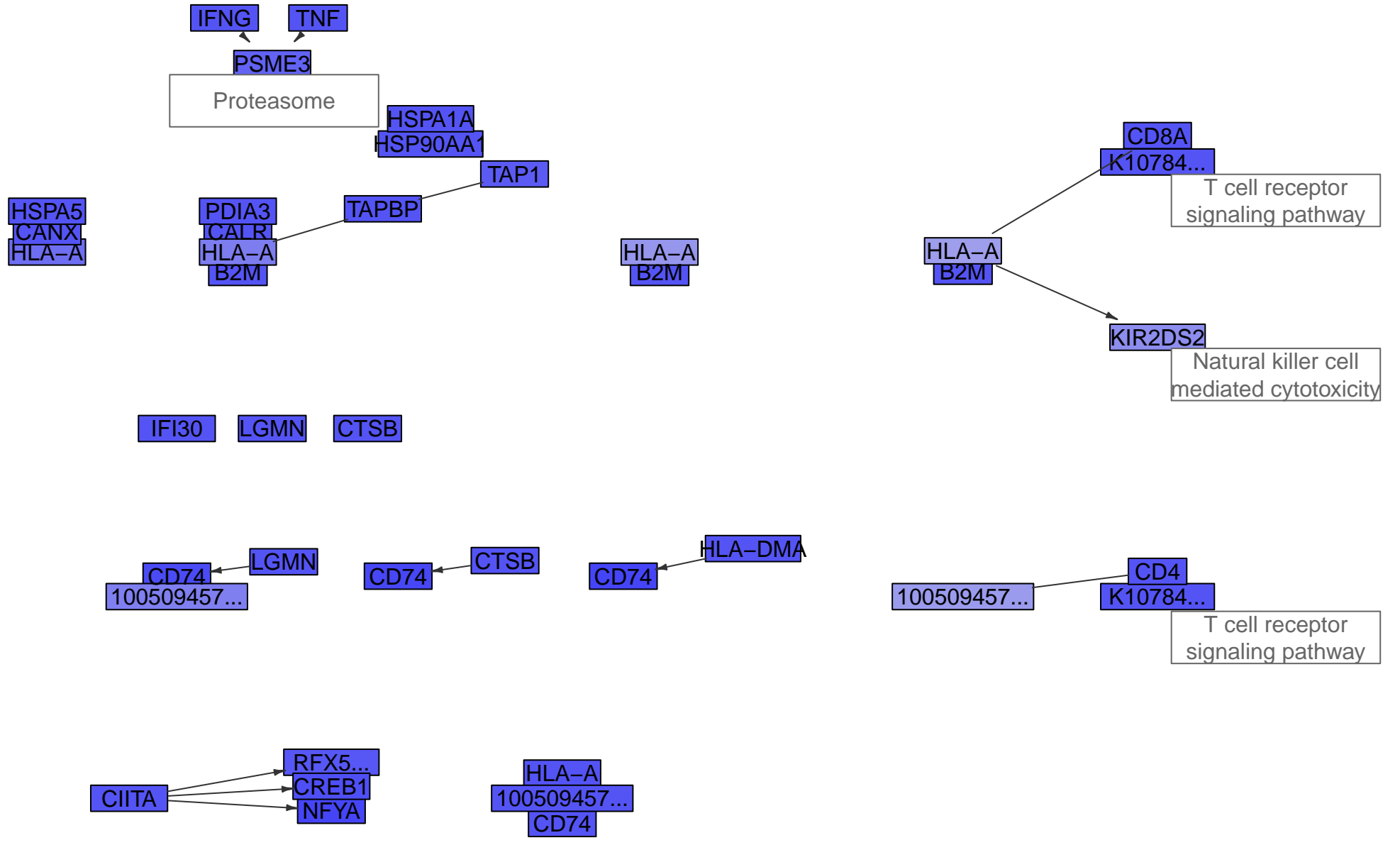
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MPI-169



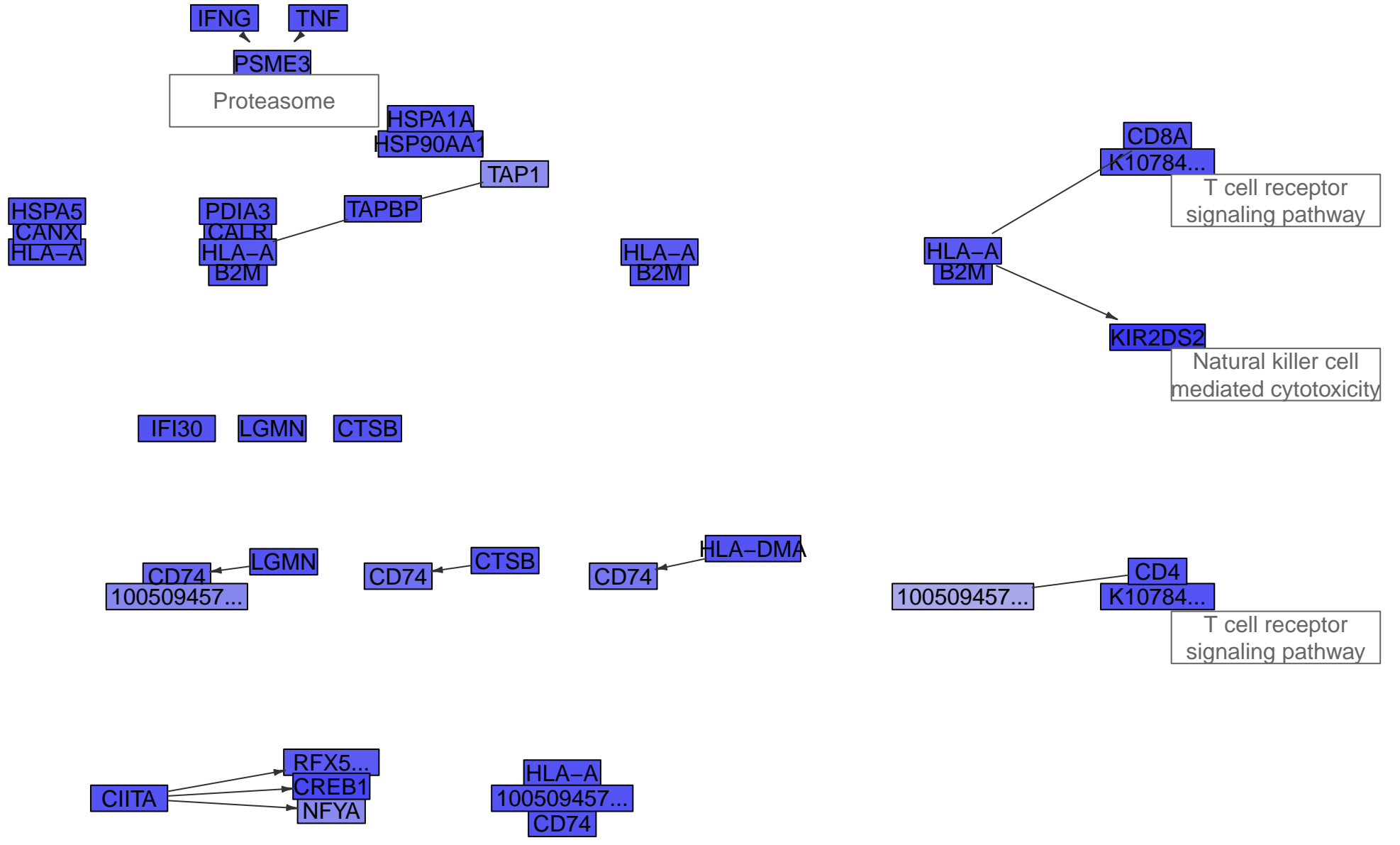
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MPI-175



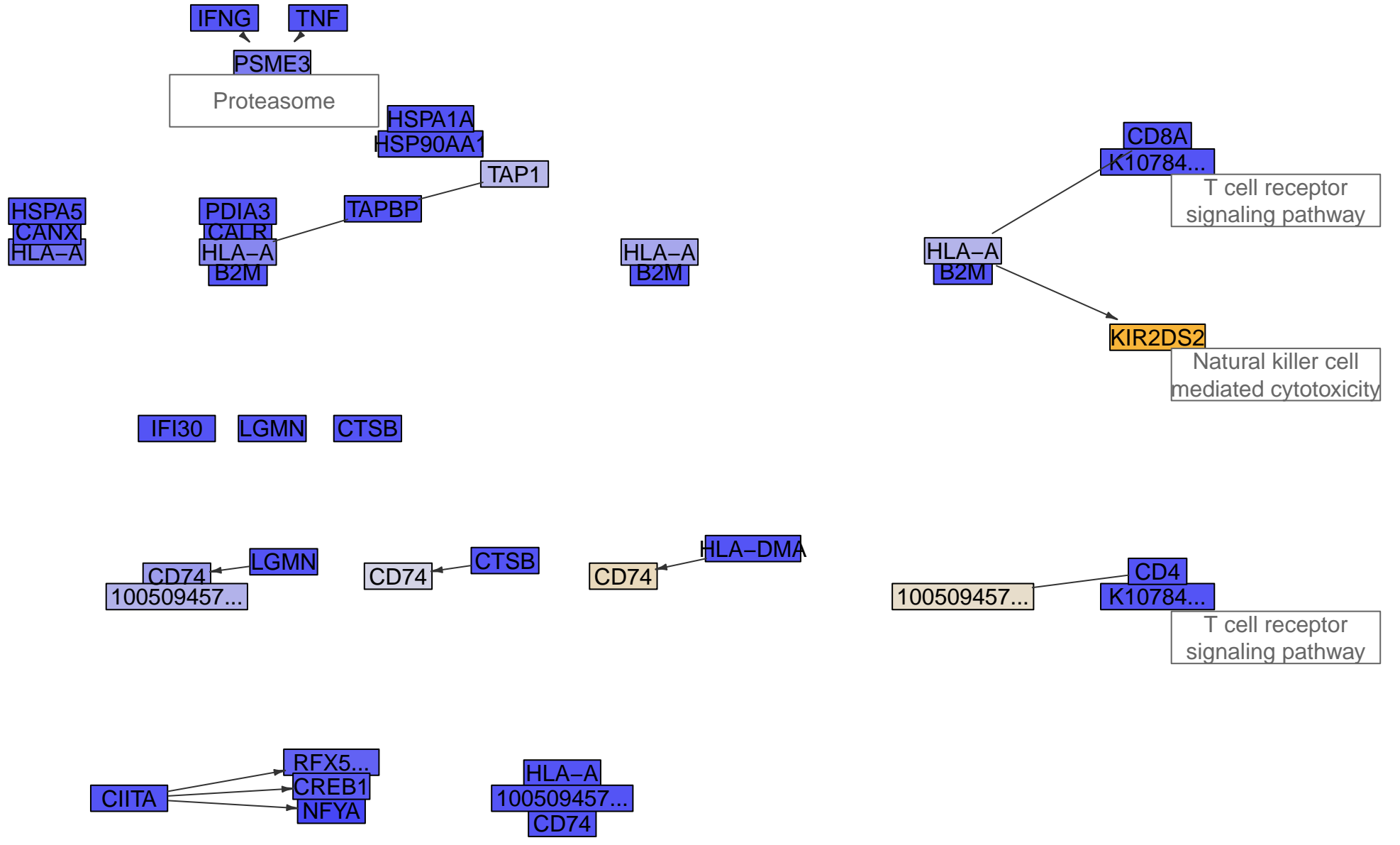
Antigen processing and presentation  
MPI-187



Antigen processing and presentation  
MPI-193

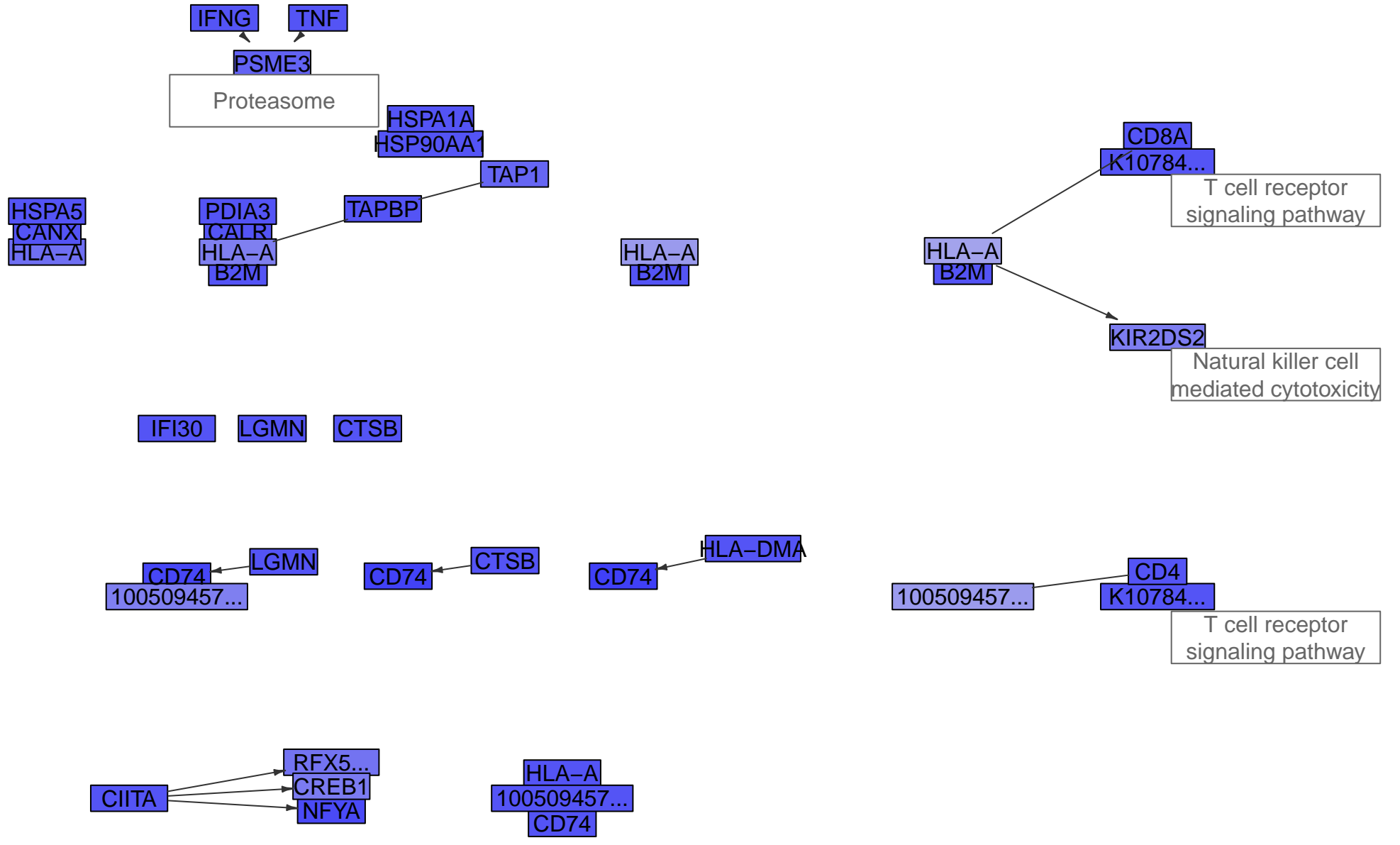


Antigen processing and presentation  
MPI-216

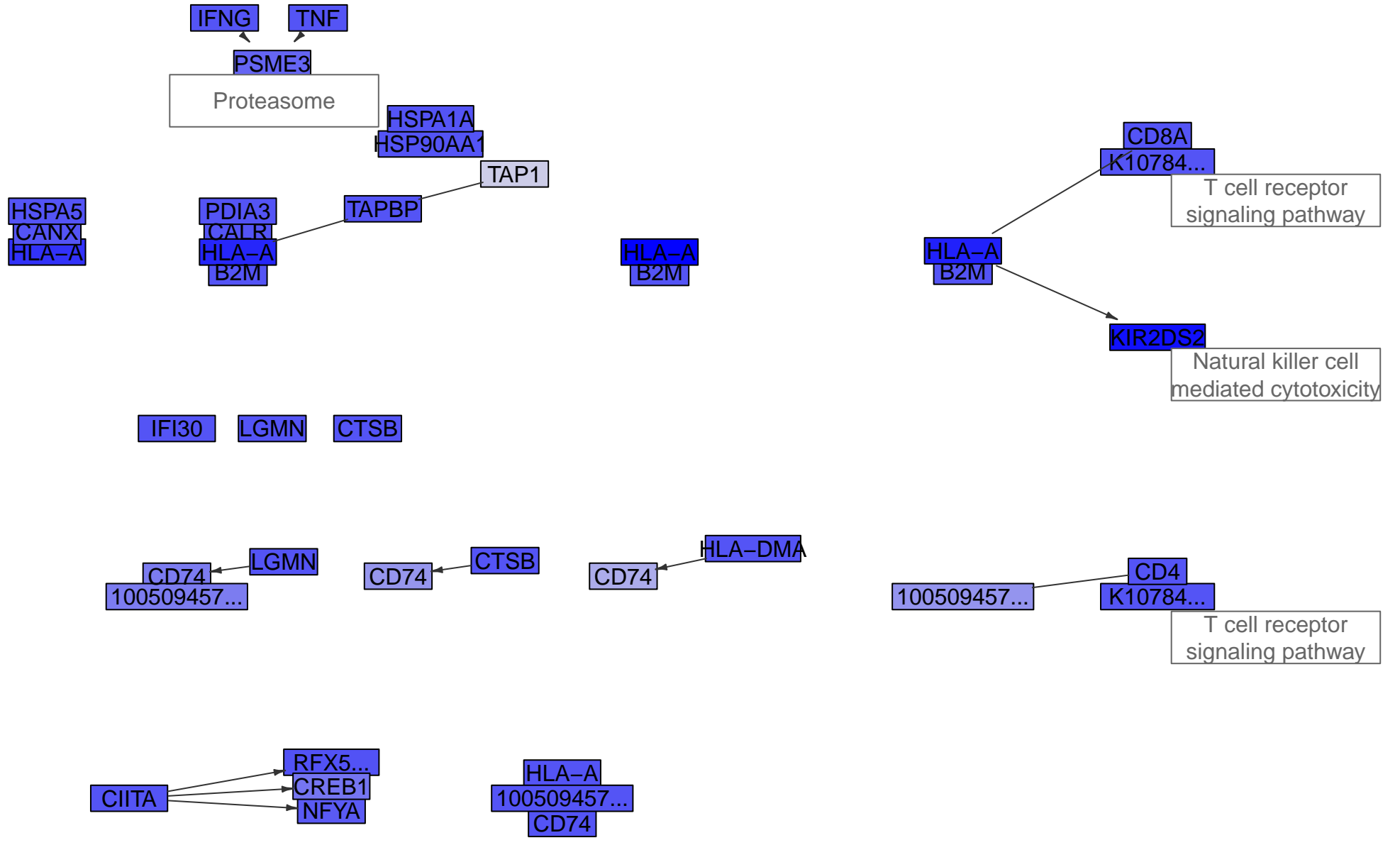




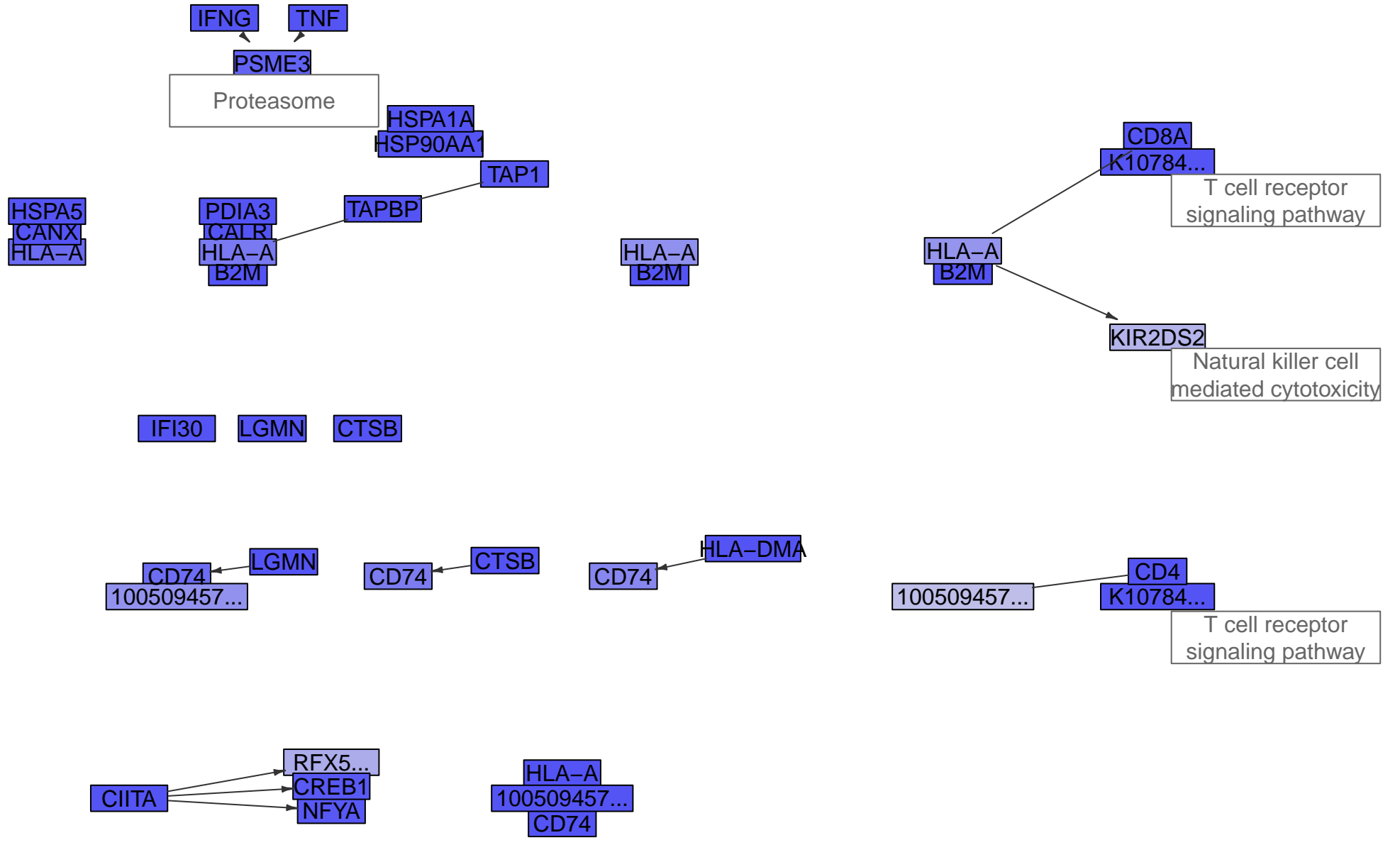
Antigen processing and presentation  
MPI-222



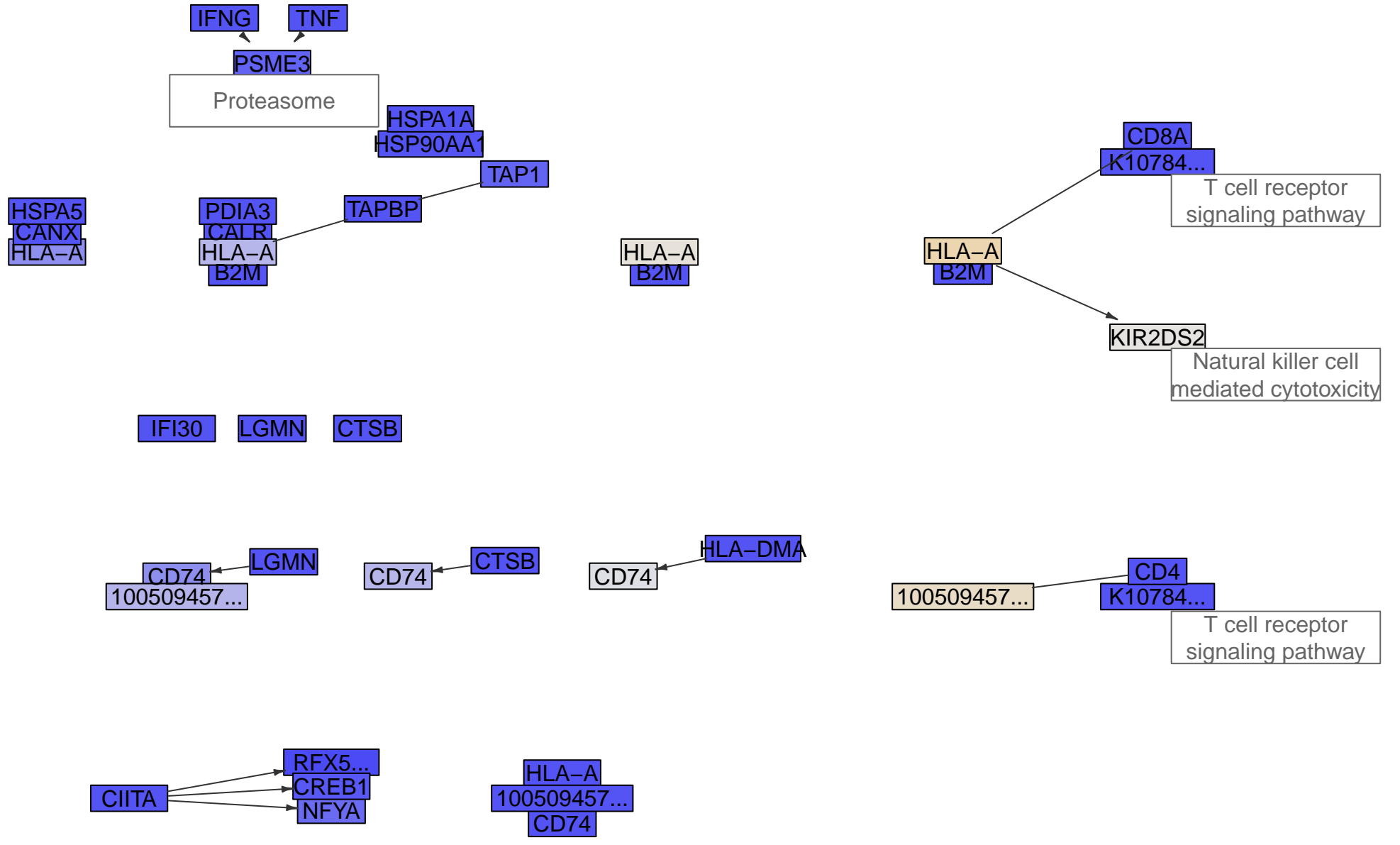
Antigen processing and presentation  
MPI-225



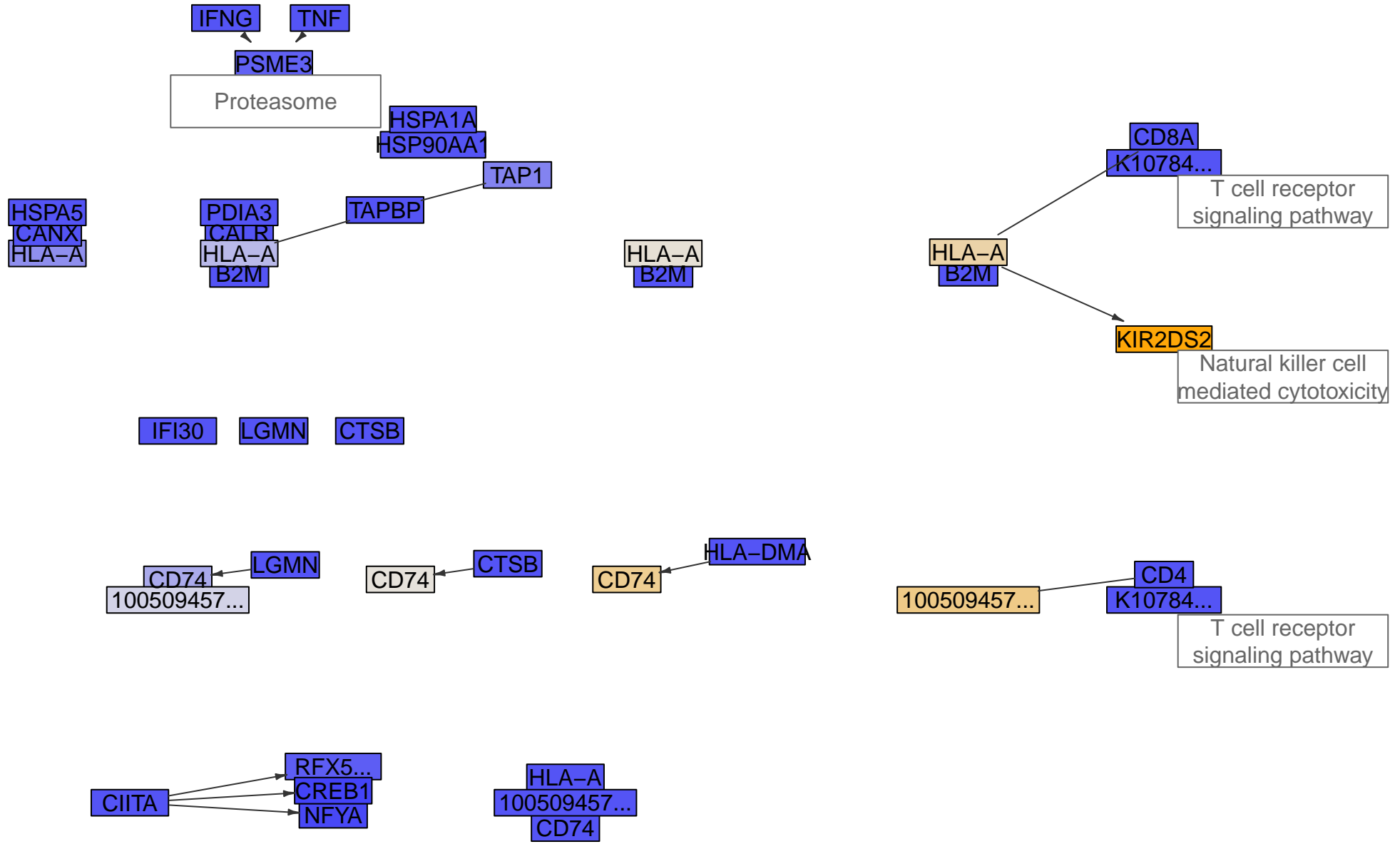
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MPI-242



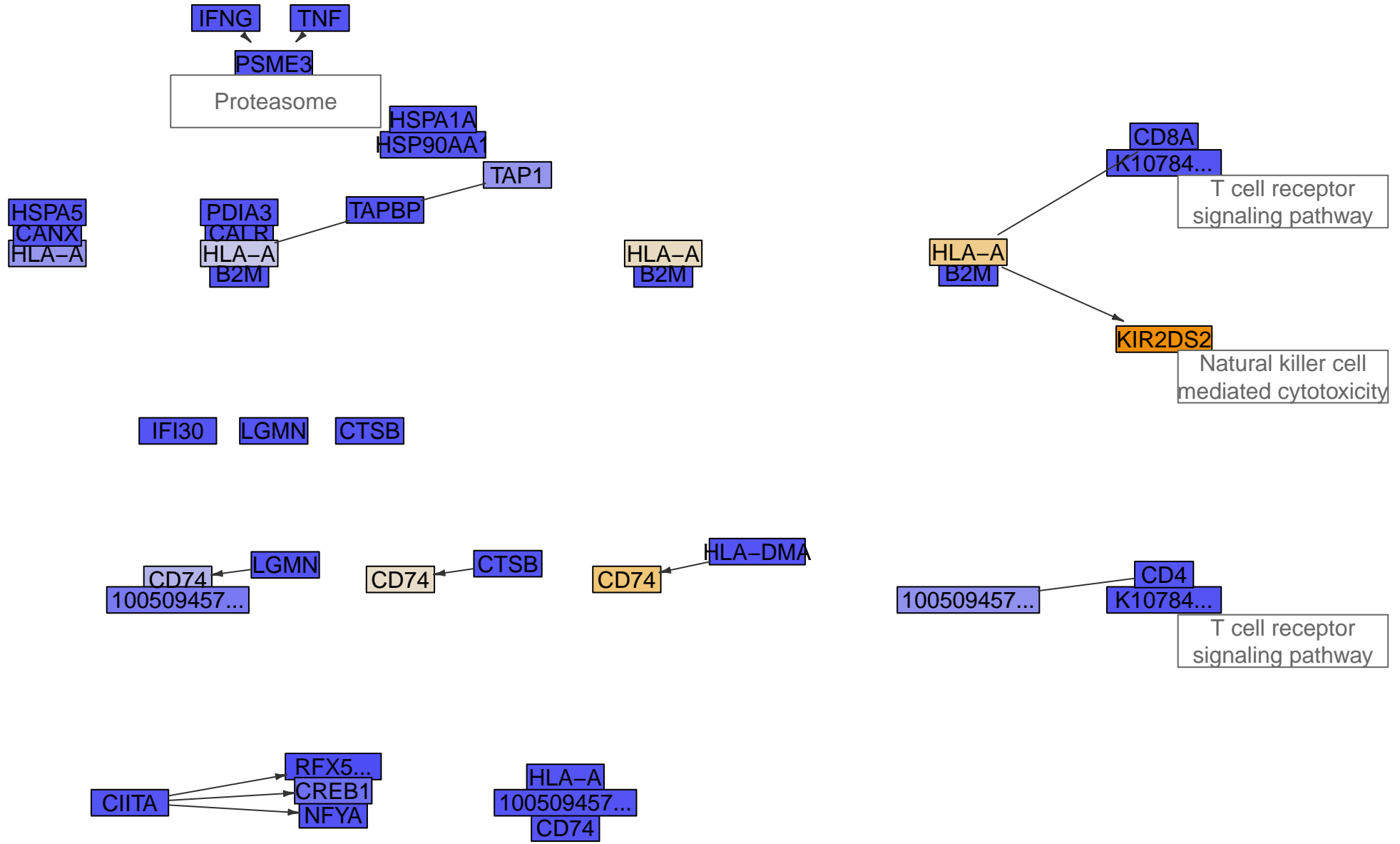
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MPI-245



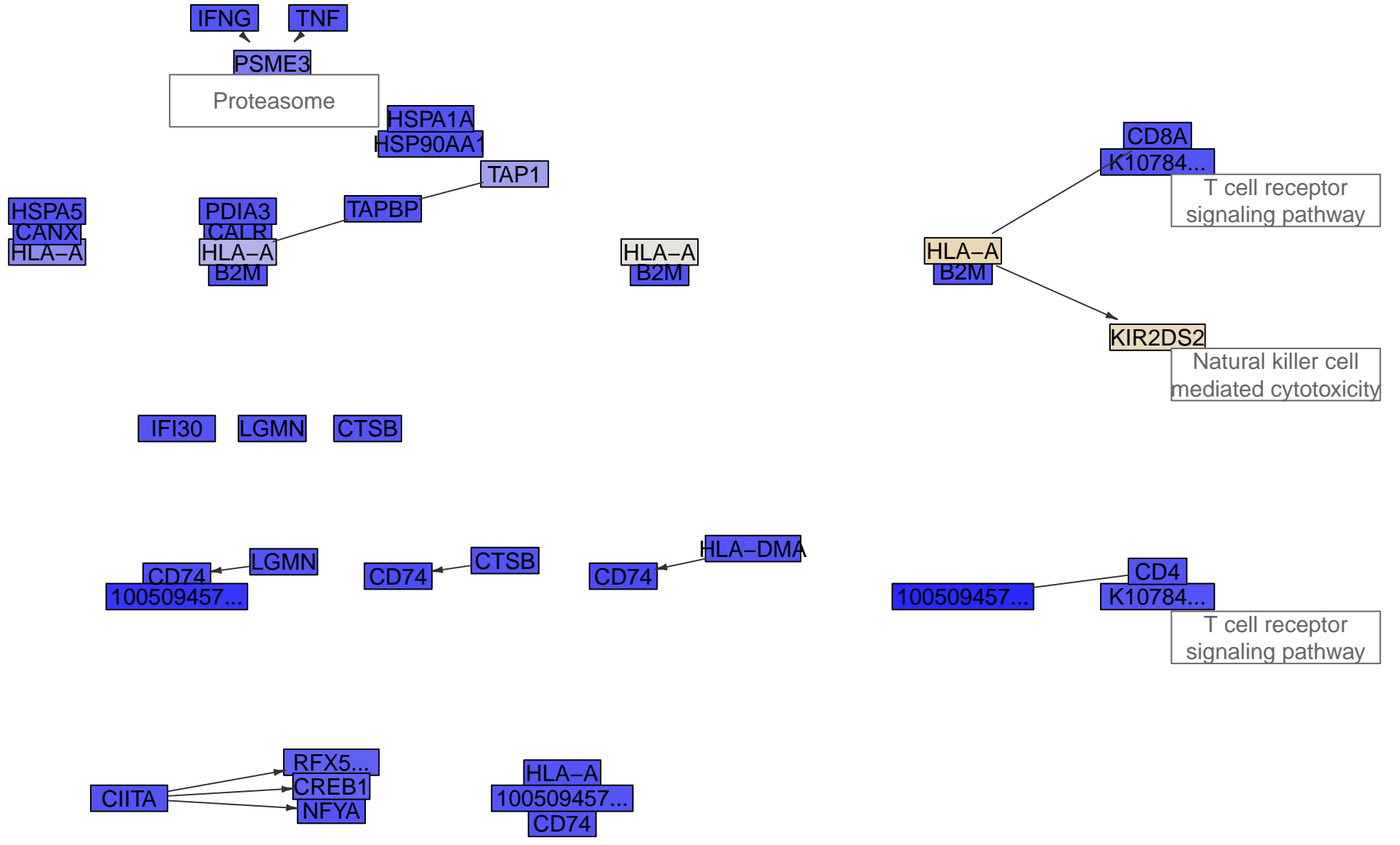
Antigen processing and presentation  
MPI-248



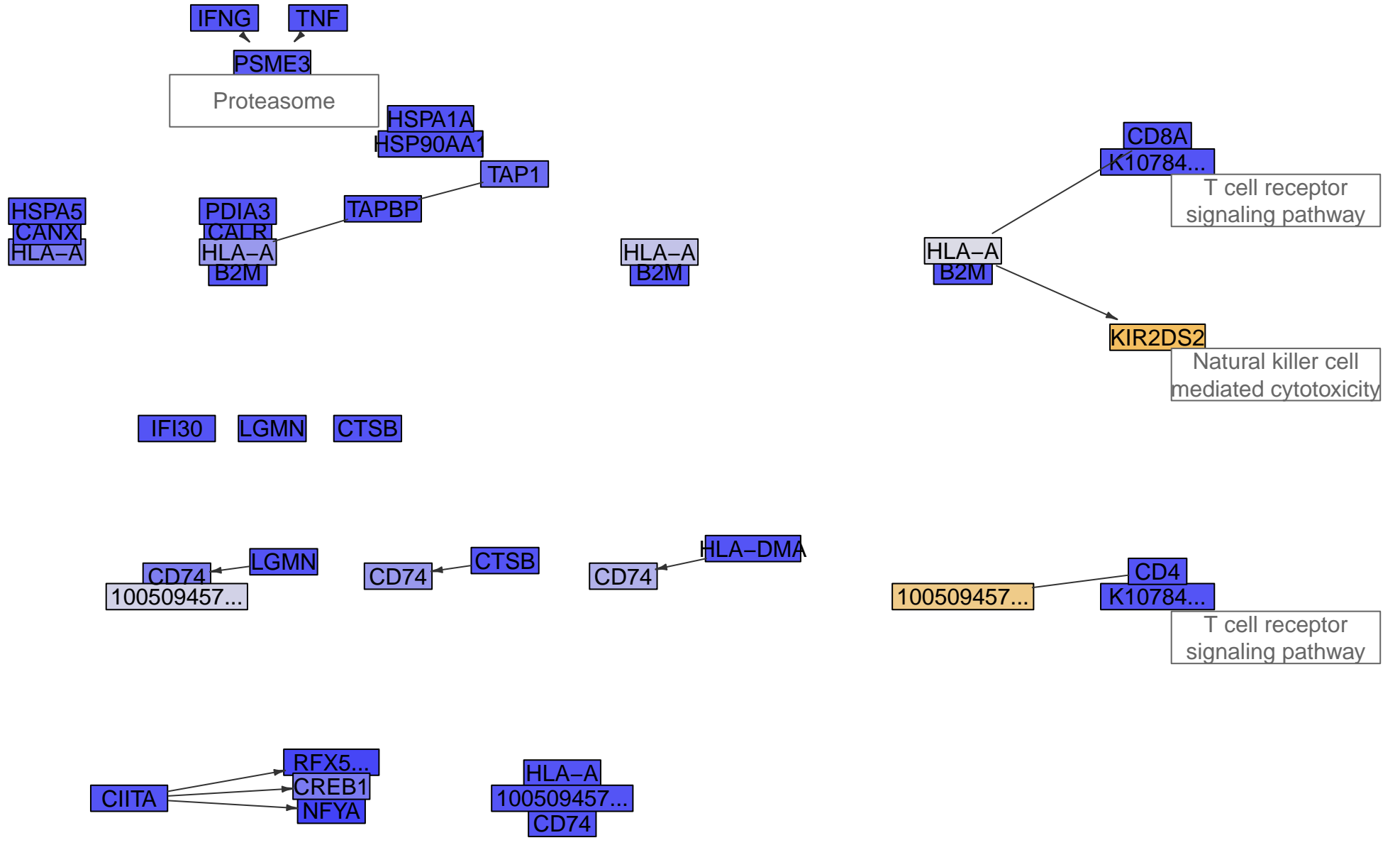
Antigen processing and presentation  
MPI-249



Antigen processing and presentation  
MPI-250

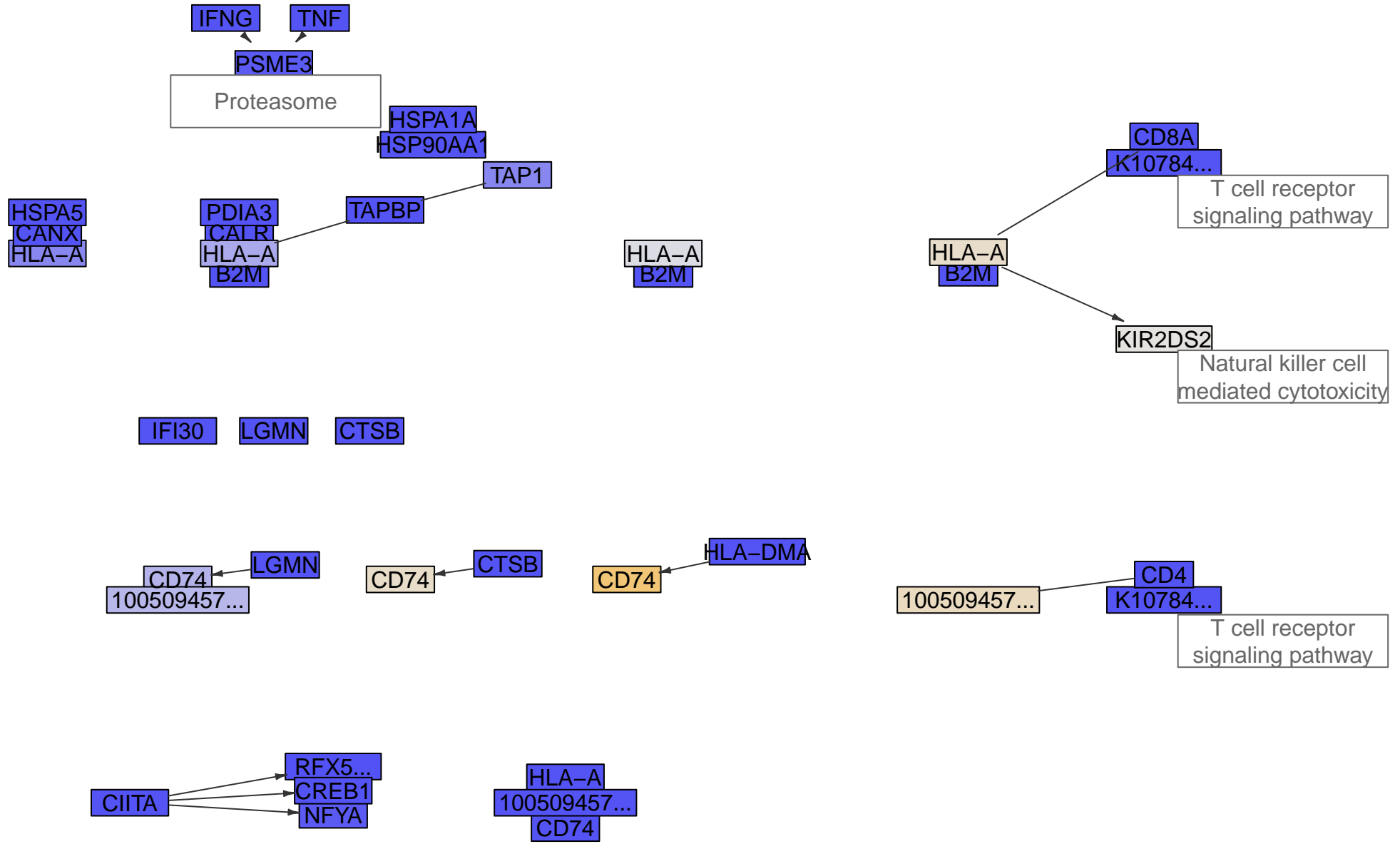


Antigen processing and presentation  
MPI-008

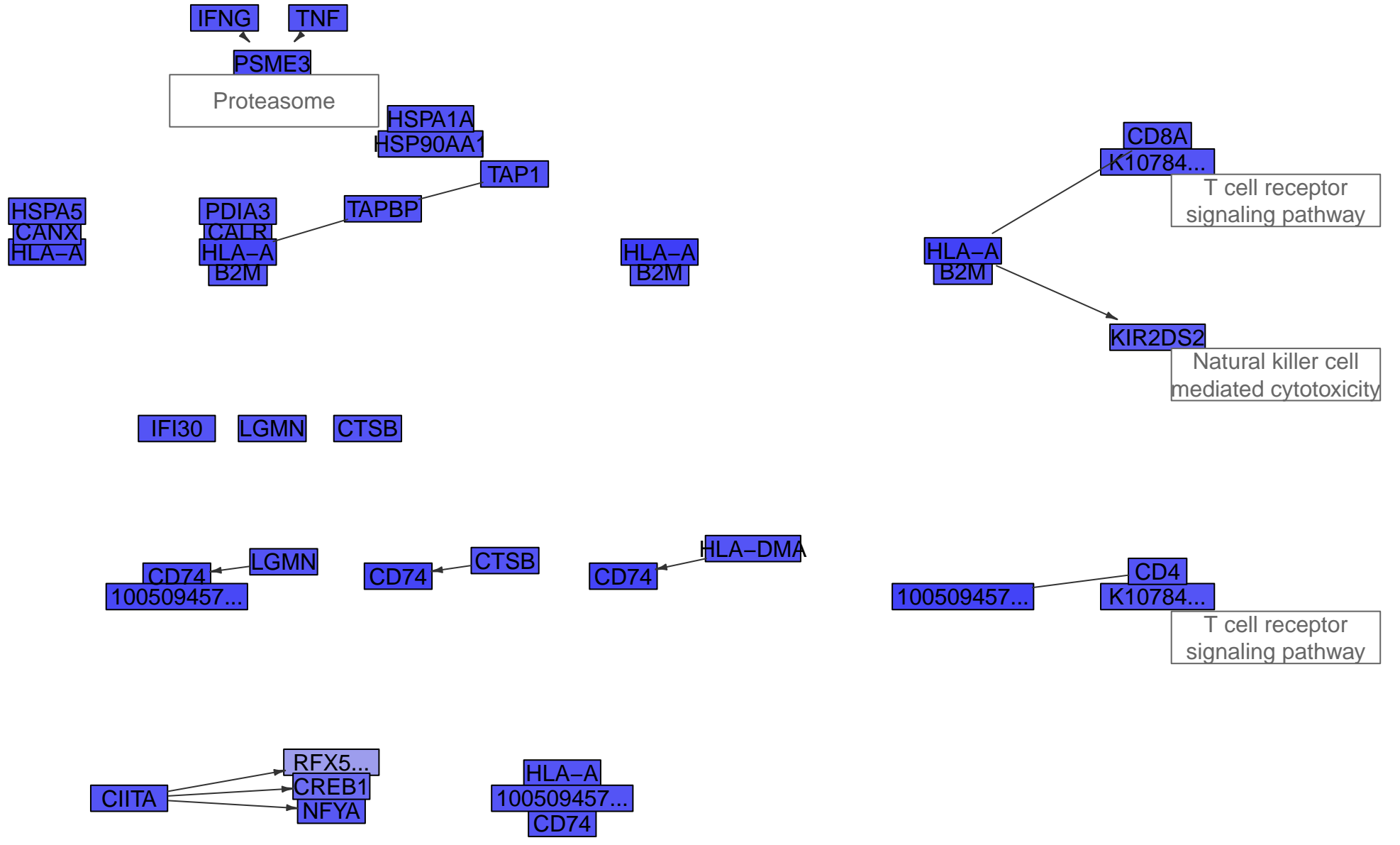




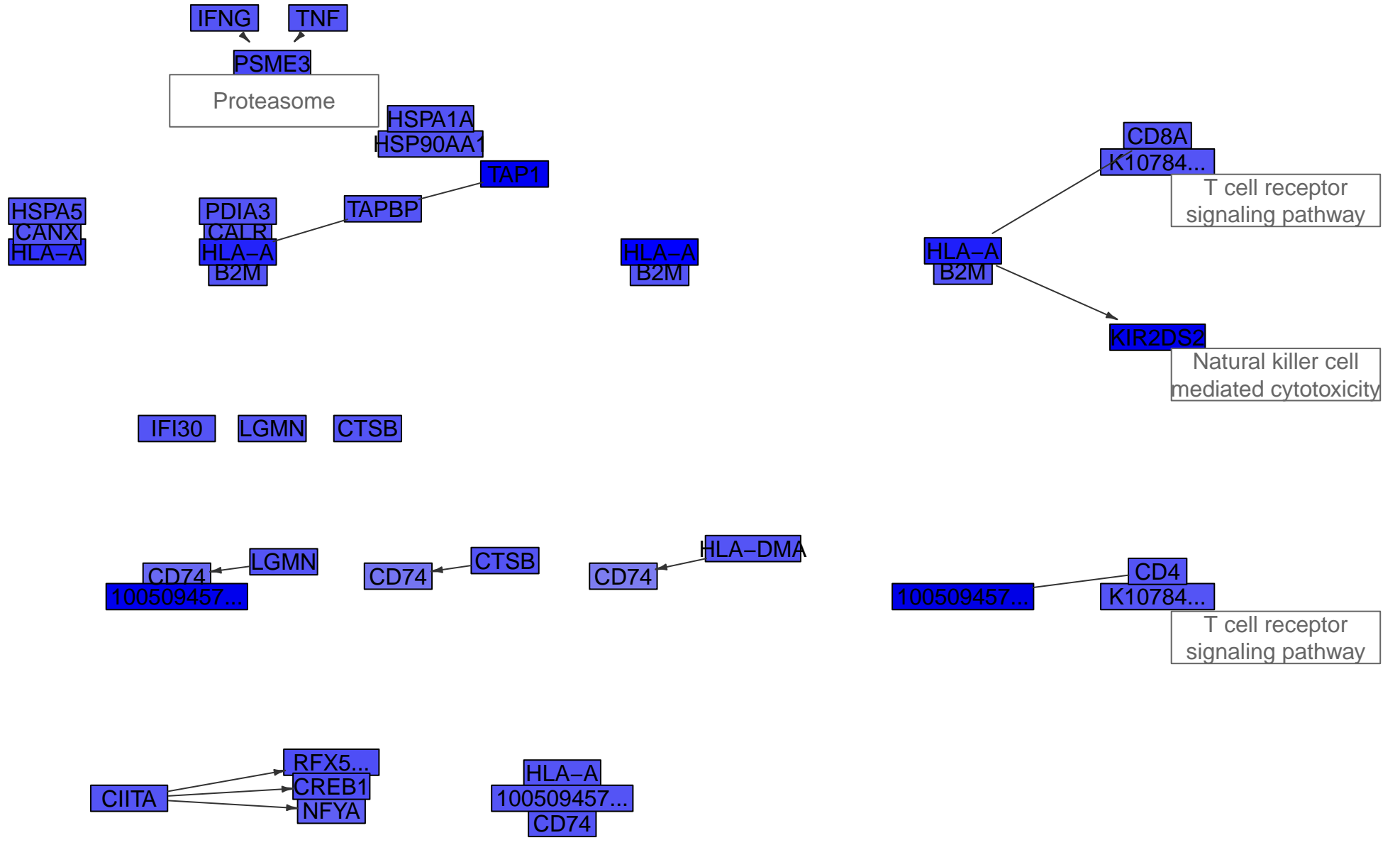
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MPI-009



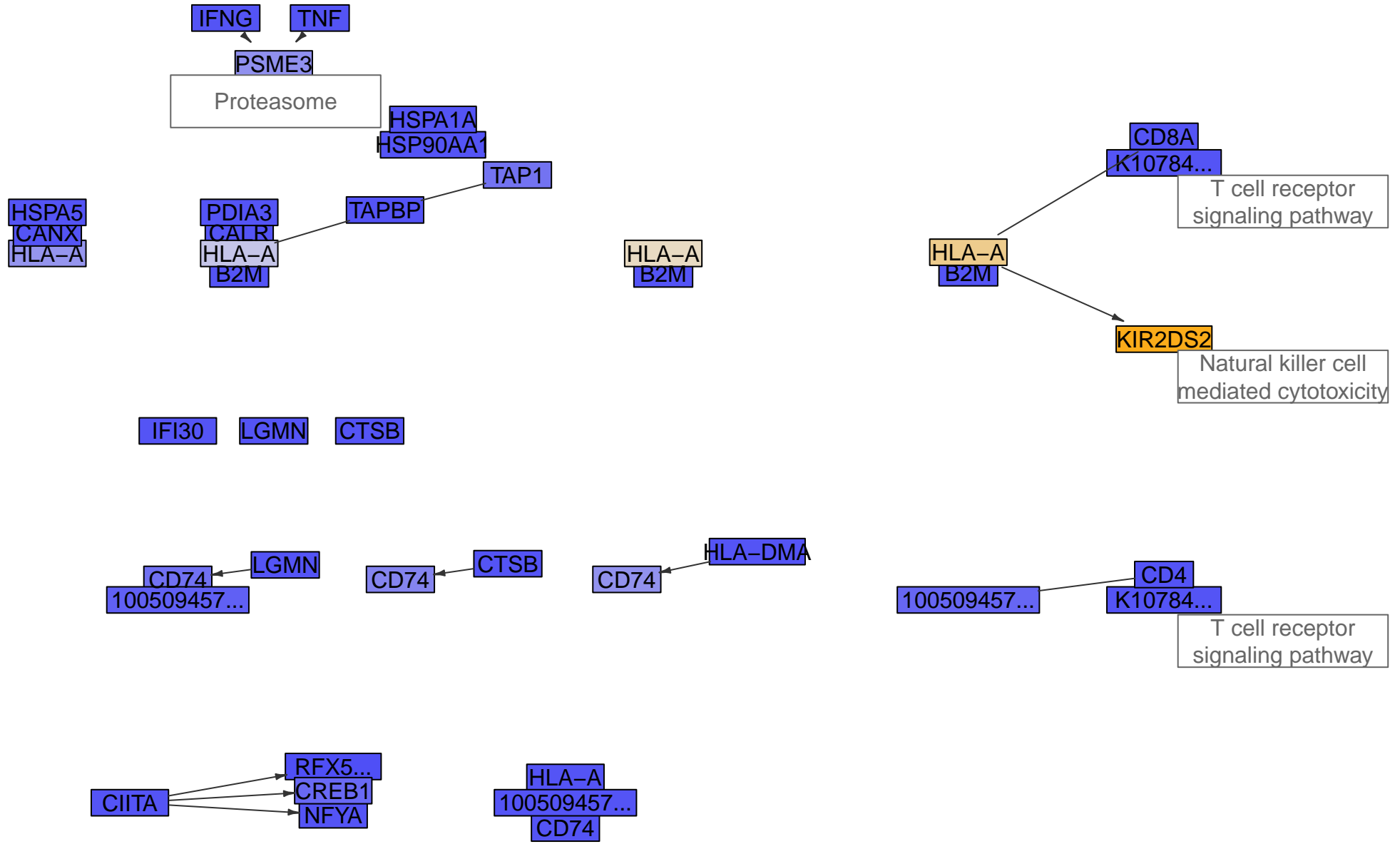
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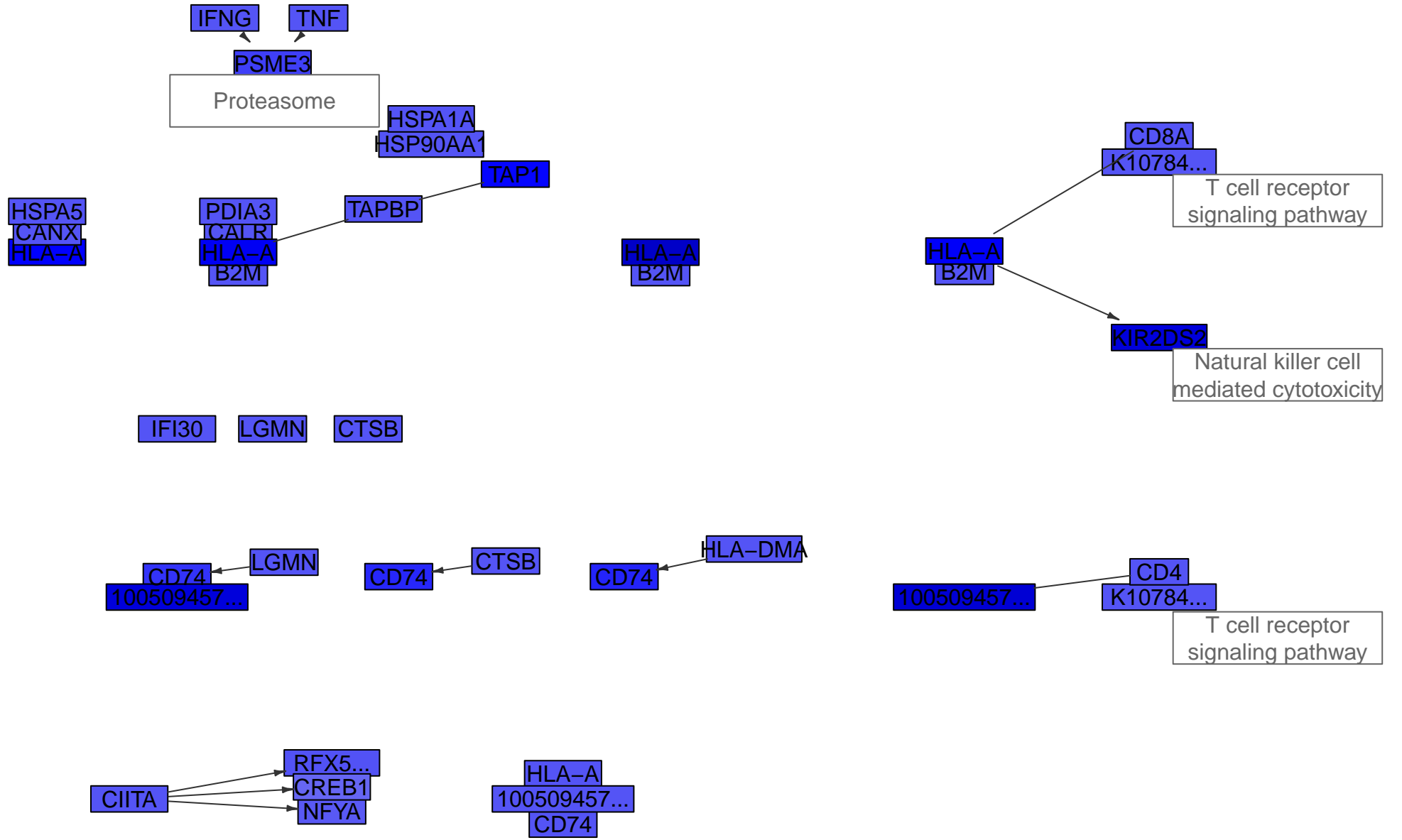
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MPI-012



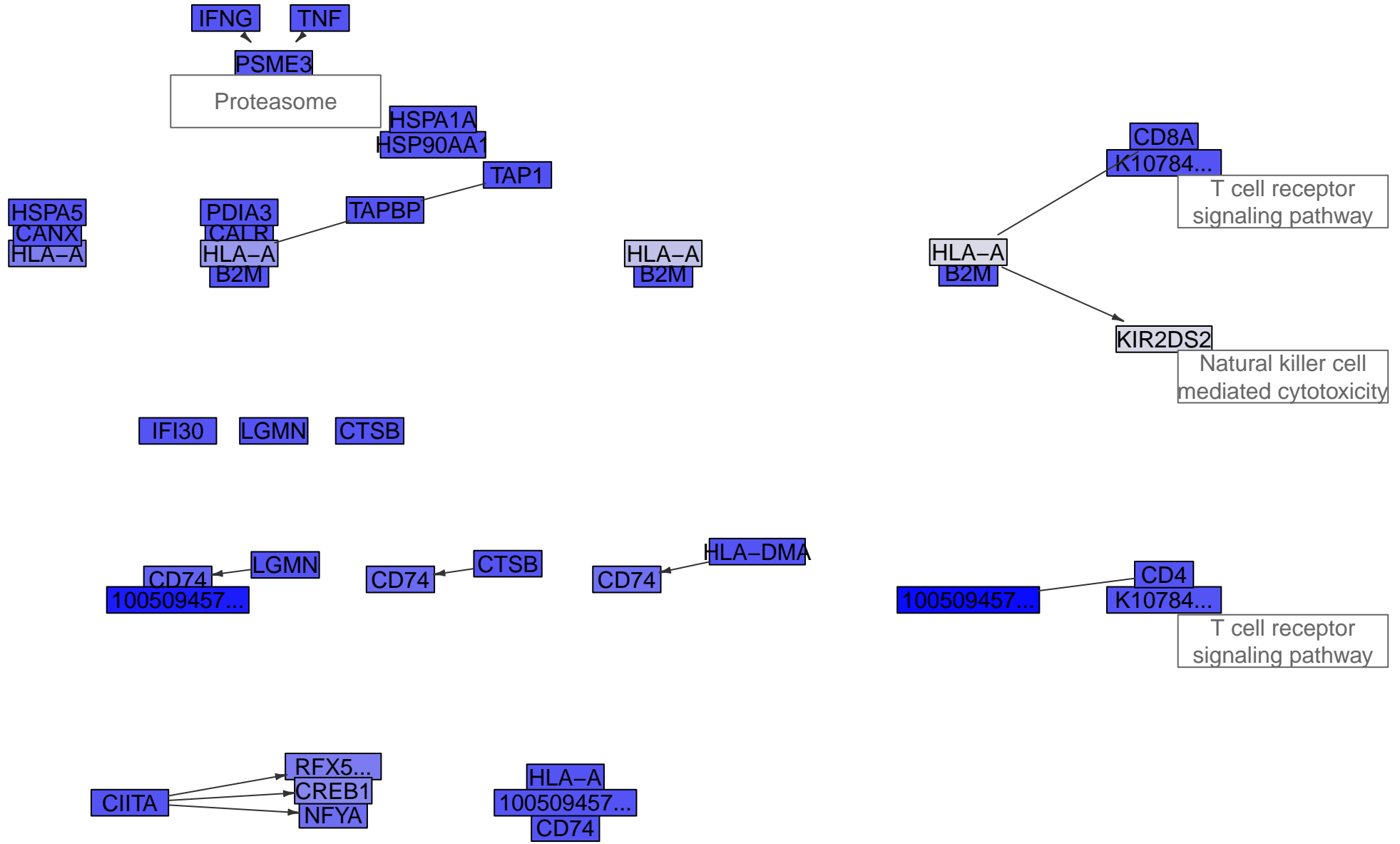
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MPI-013



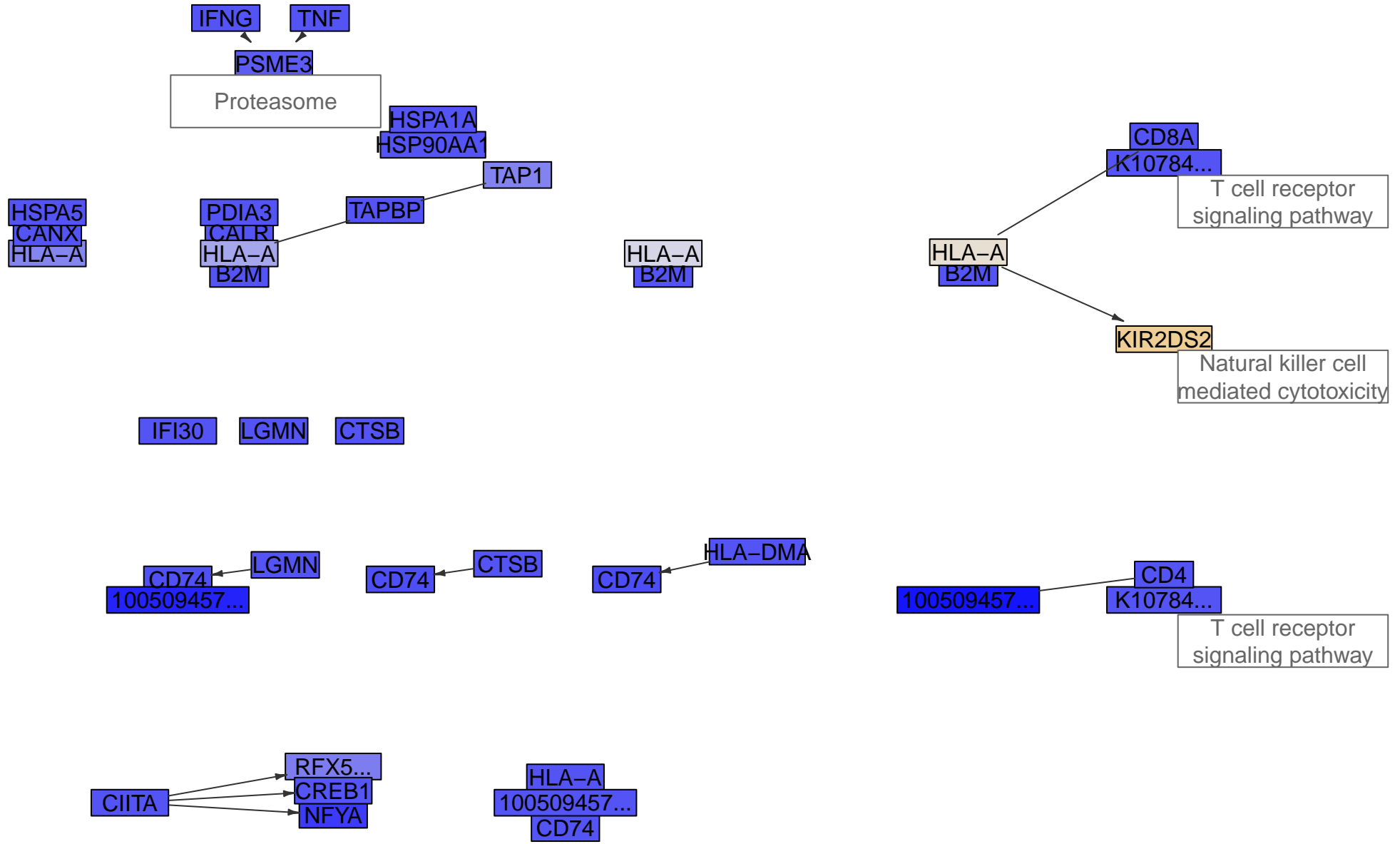
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MPI-014



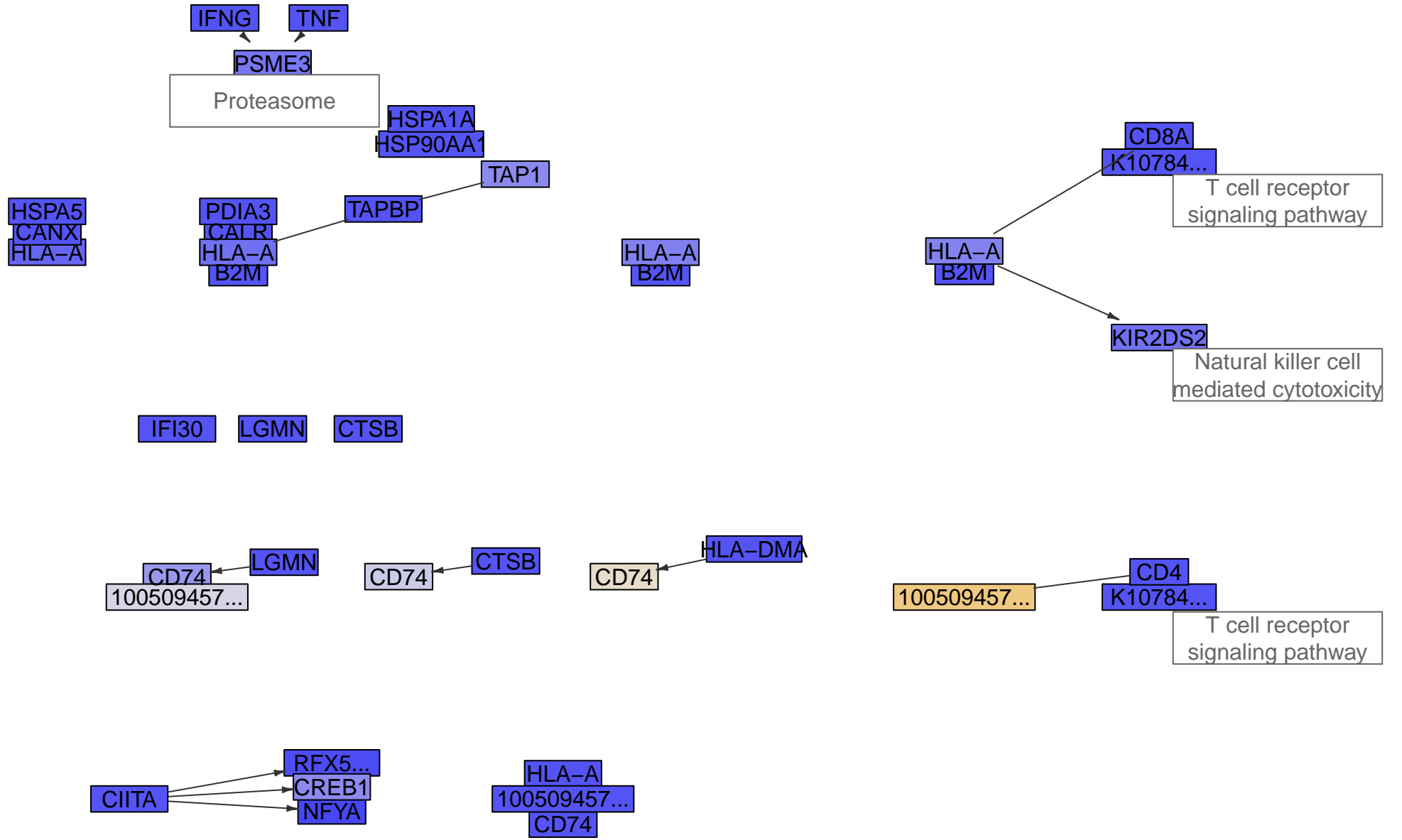
Antigen processing and presentation  
MPI-015



Antigen processing and presentation  
MPI-021

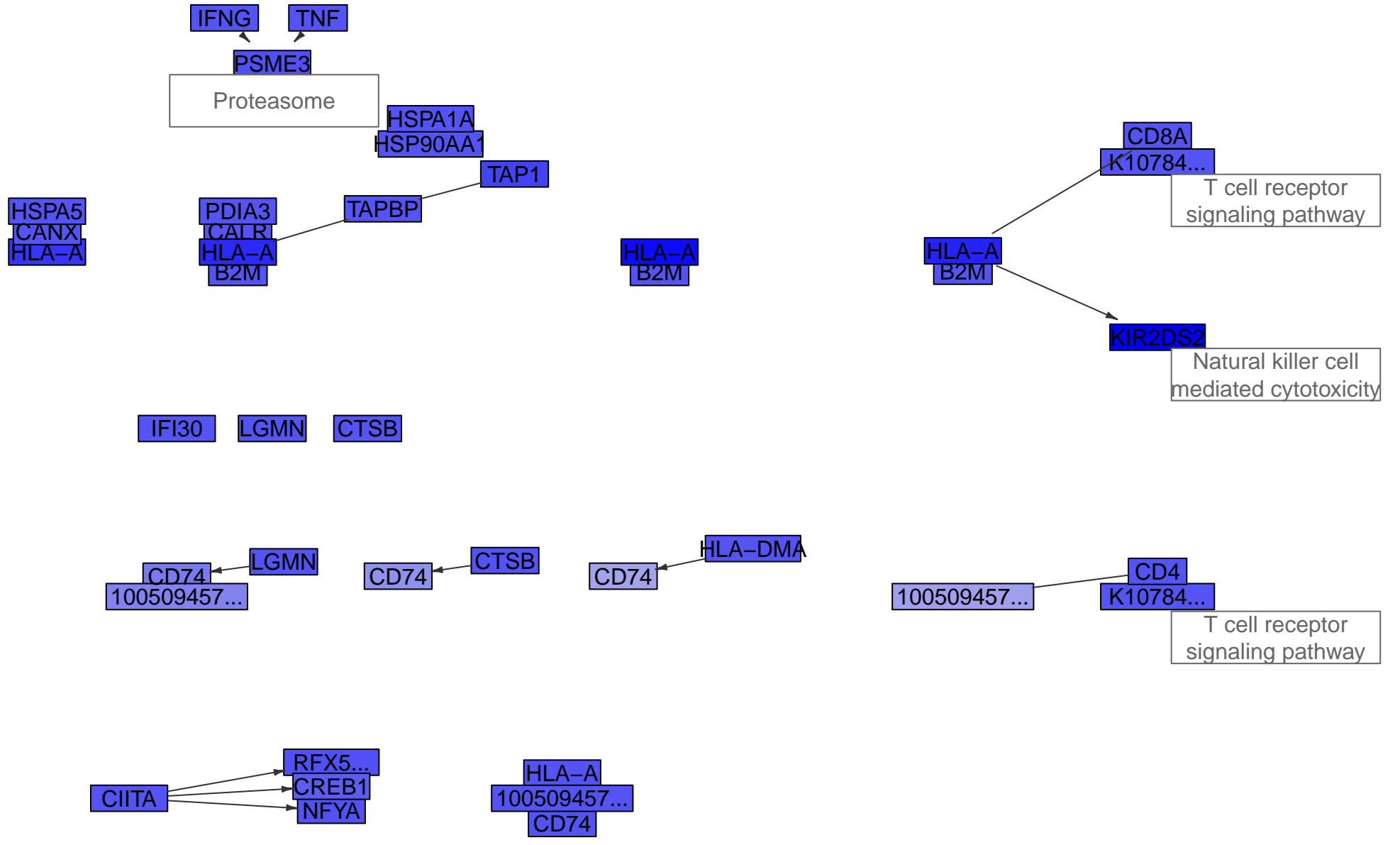


Antigen processing and presentation  
MPI-022

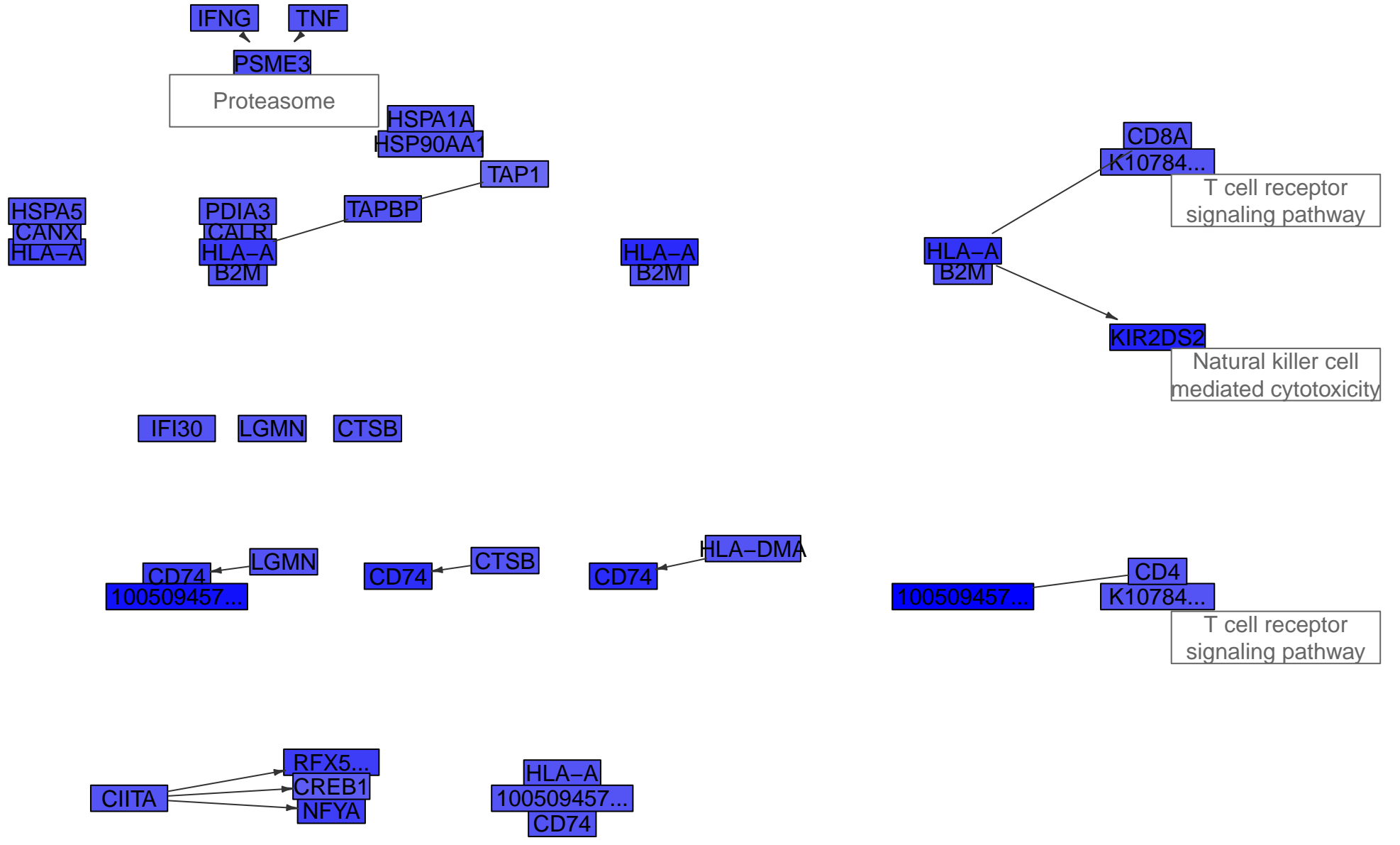




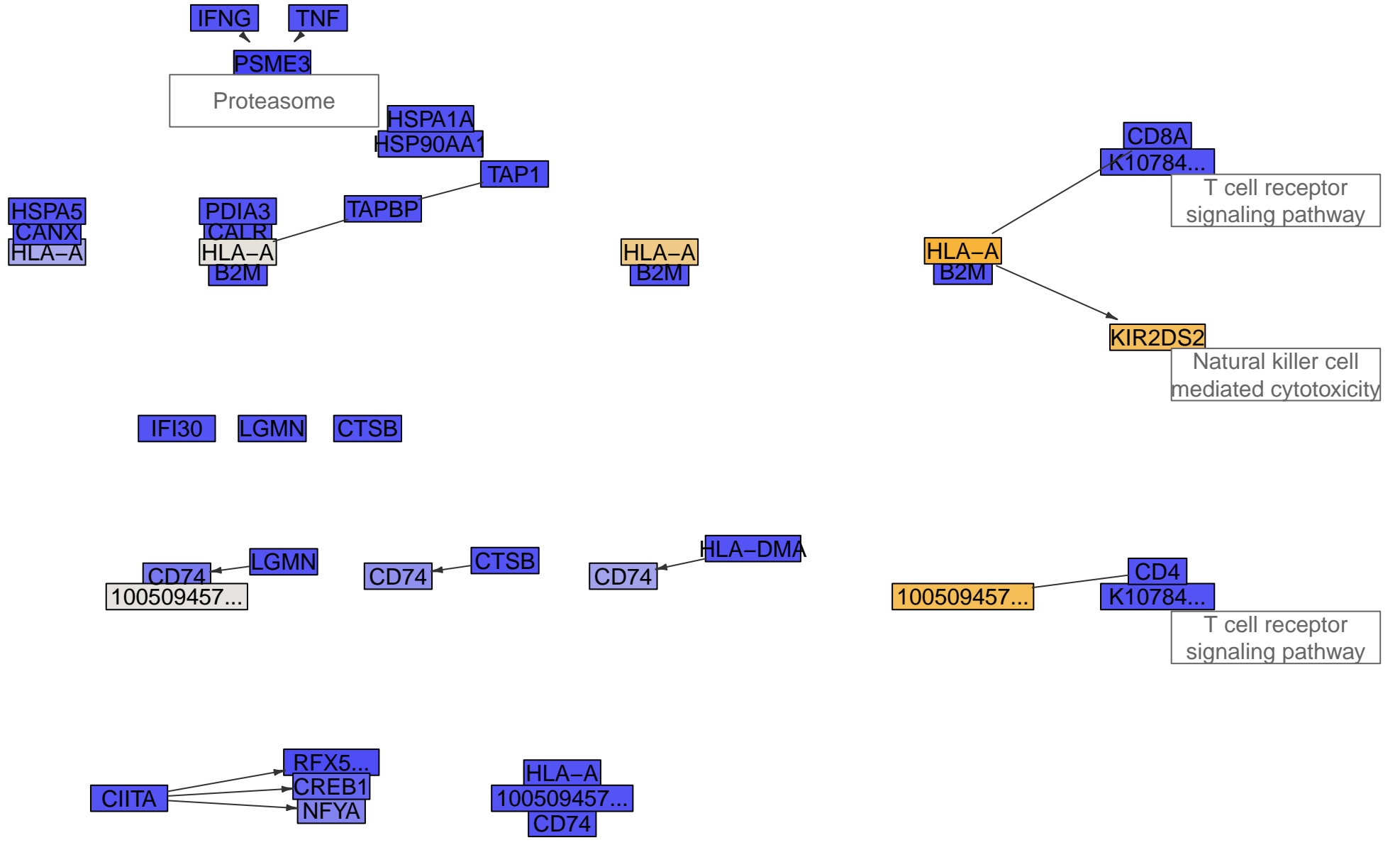
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MPI-025



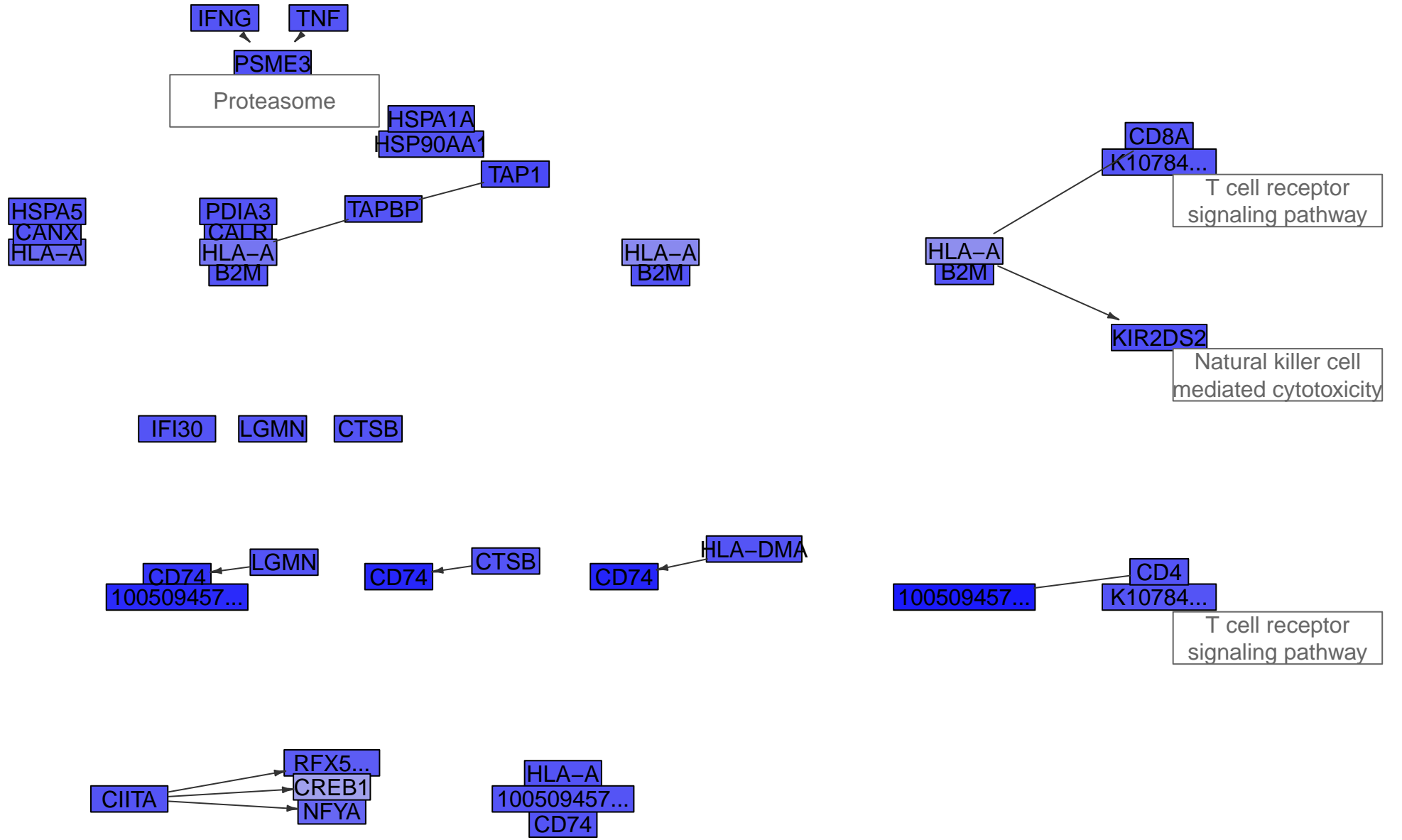
Antigen processing and presentation  
MPI-029



Antigen processing and presentation  
MPI-030

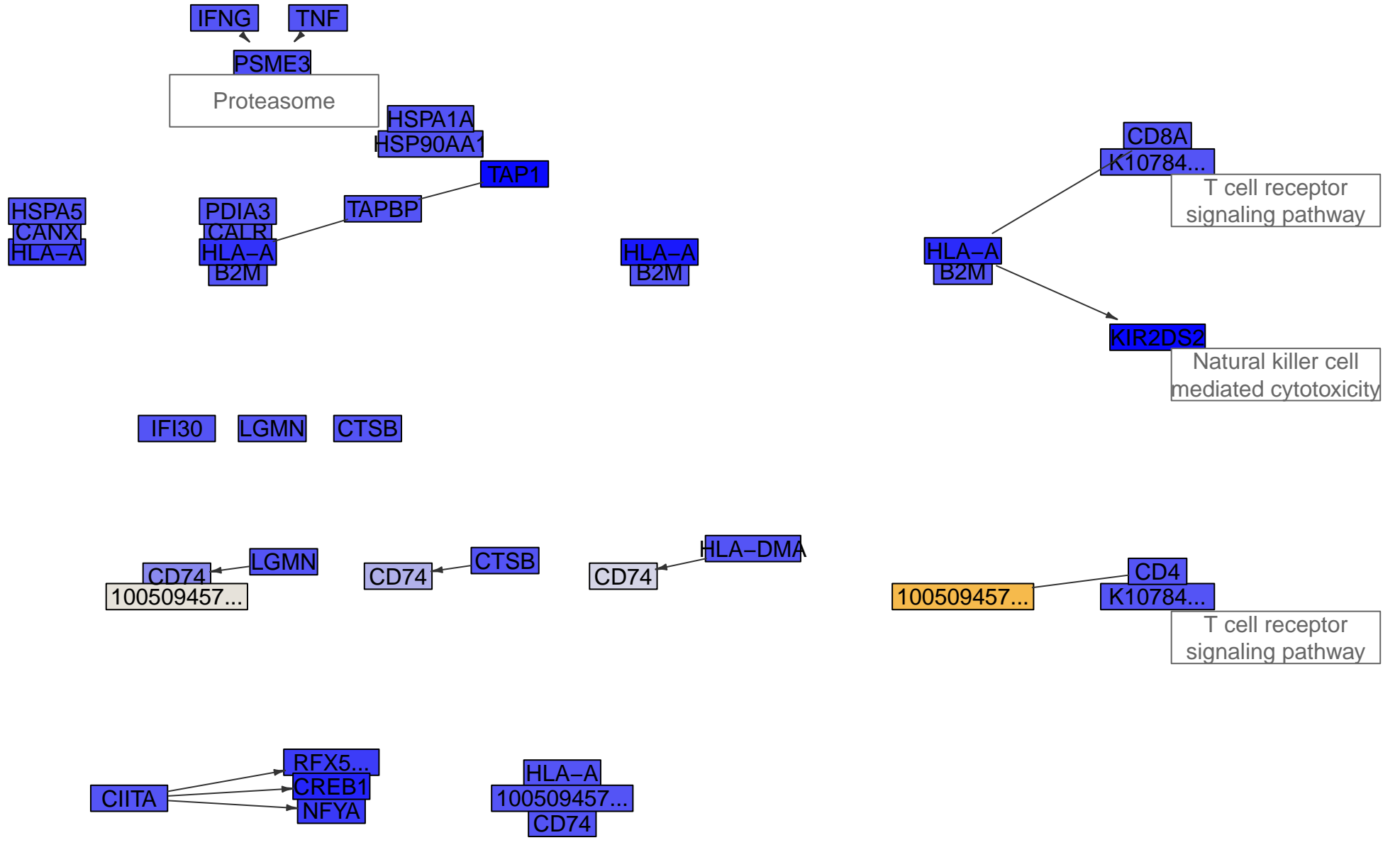


Antigen processing and presentation  
MPI-031

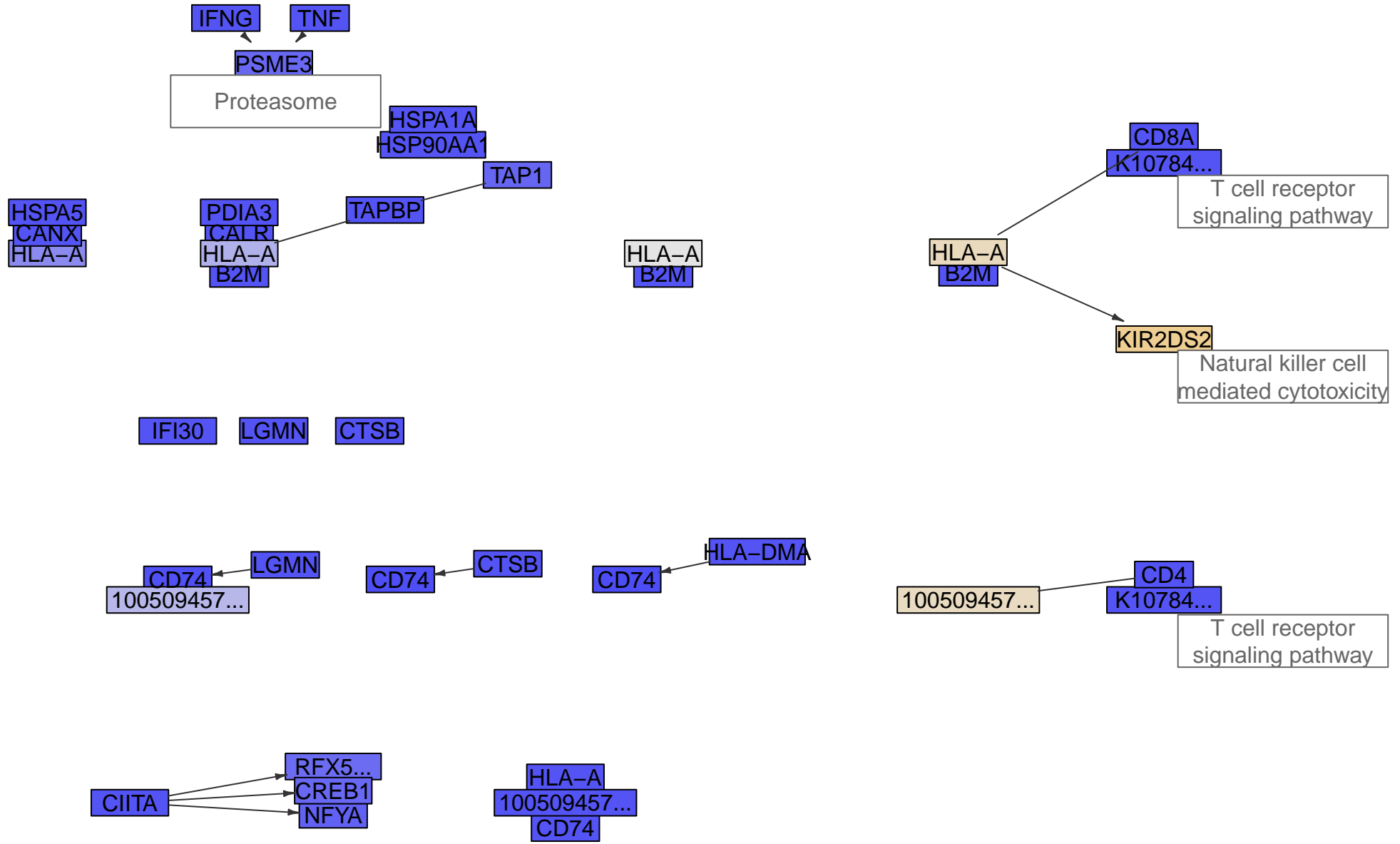




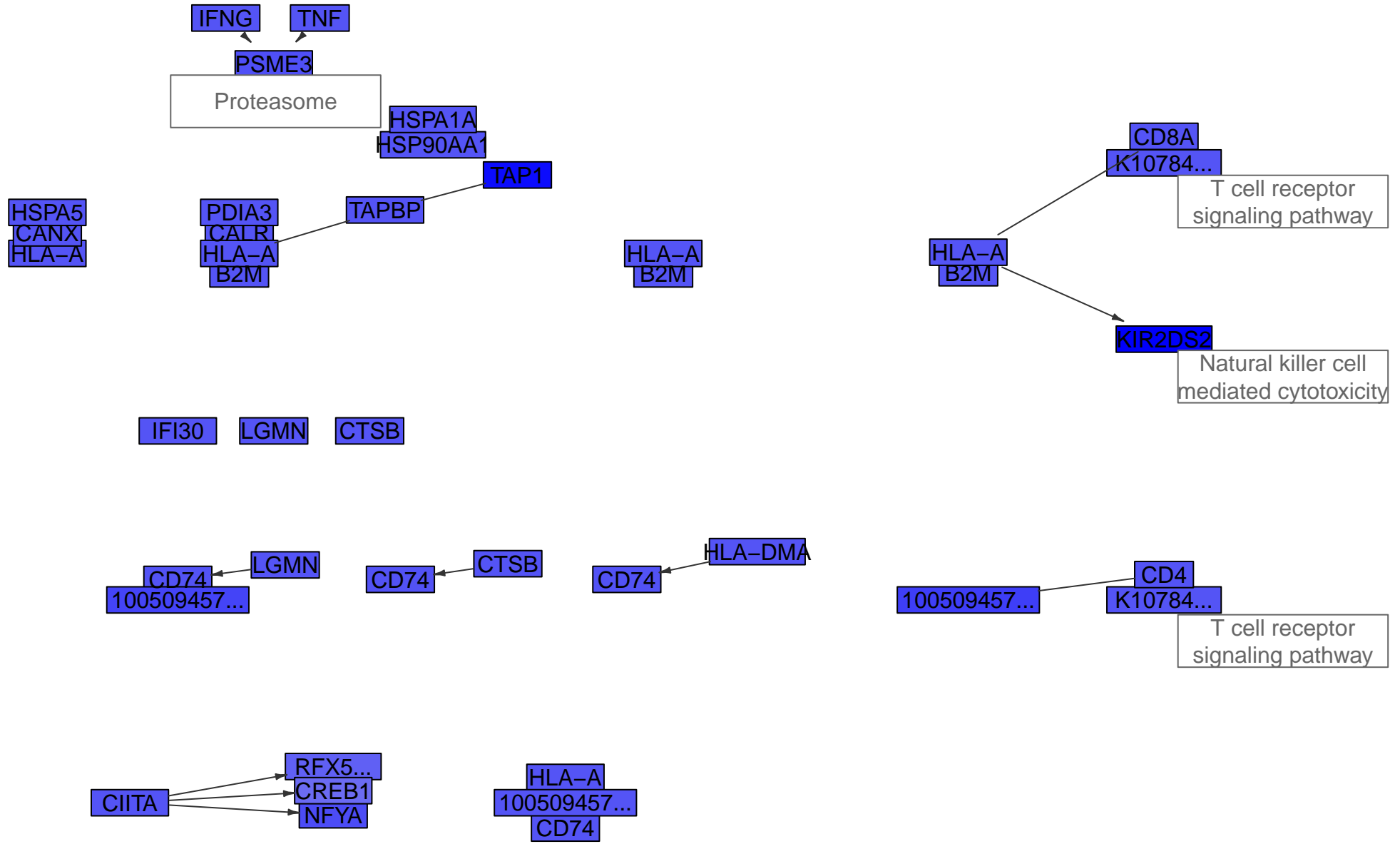
Antigen processing and presentation  
MPI-040



Antigen processing and presentation  
MPI-045

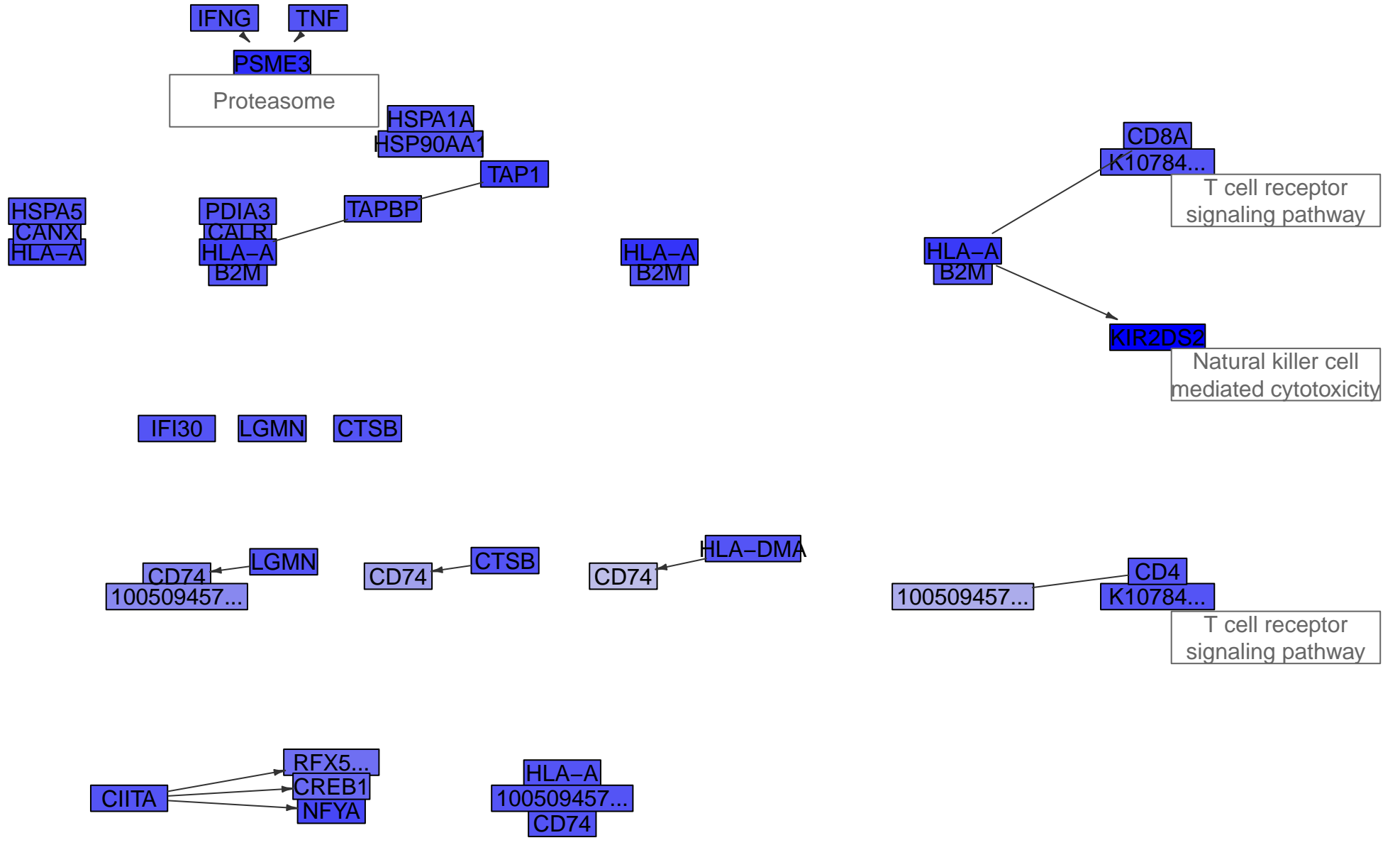


Antigen processing and presentation  
MPI-047

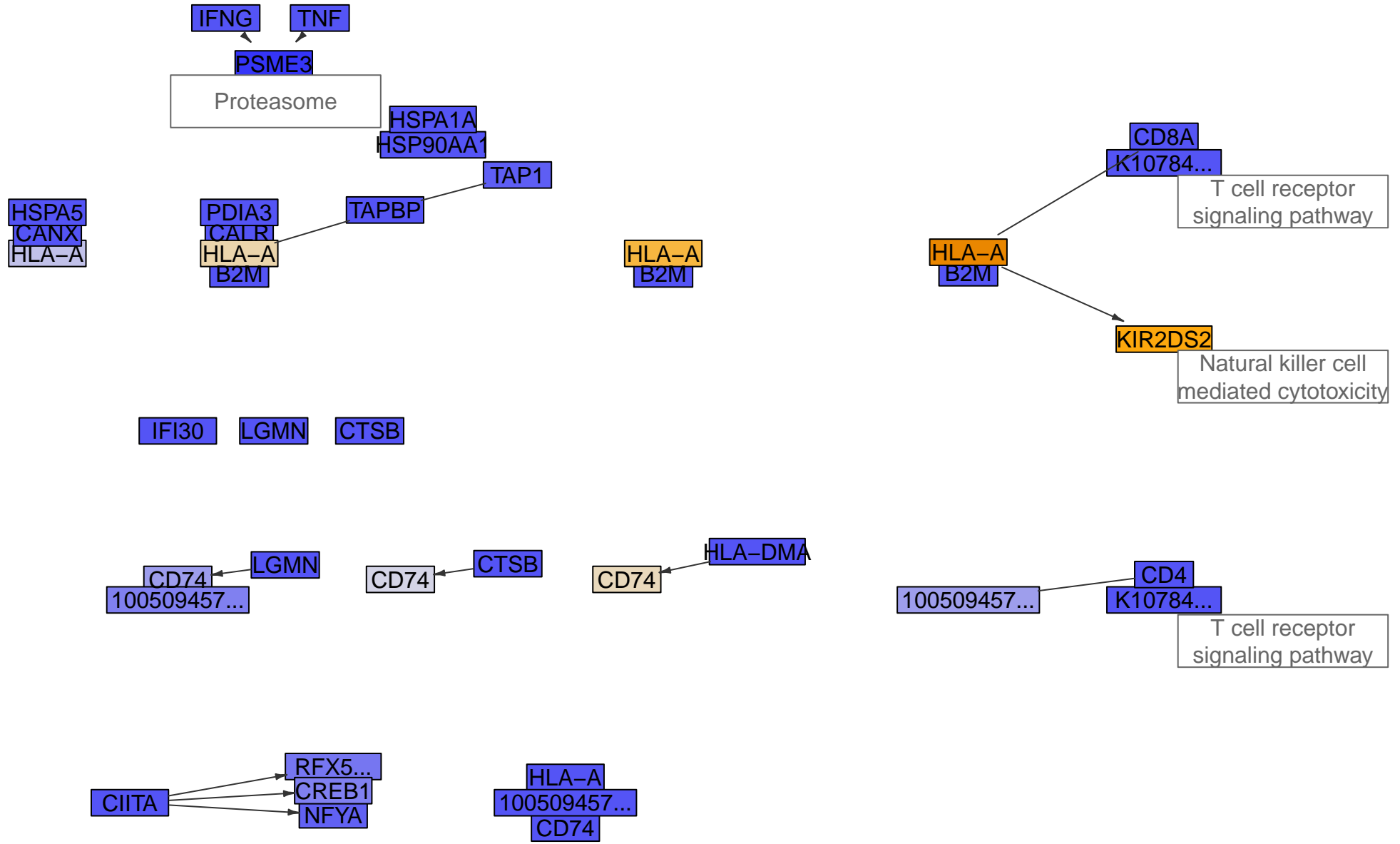




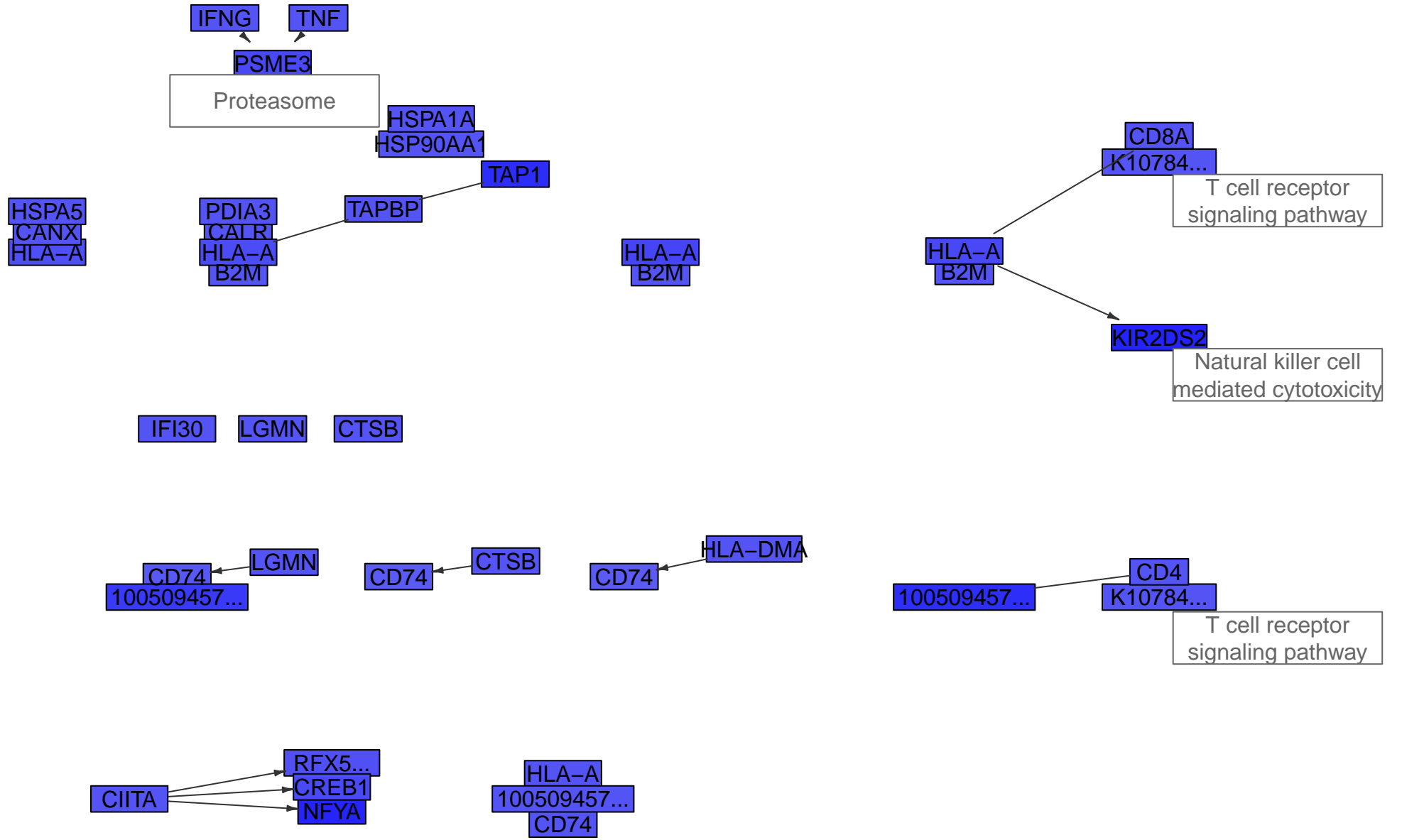
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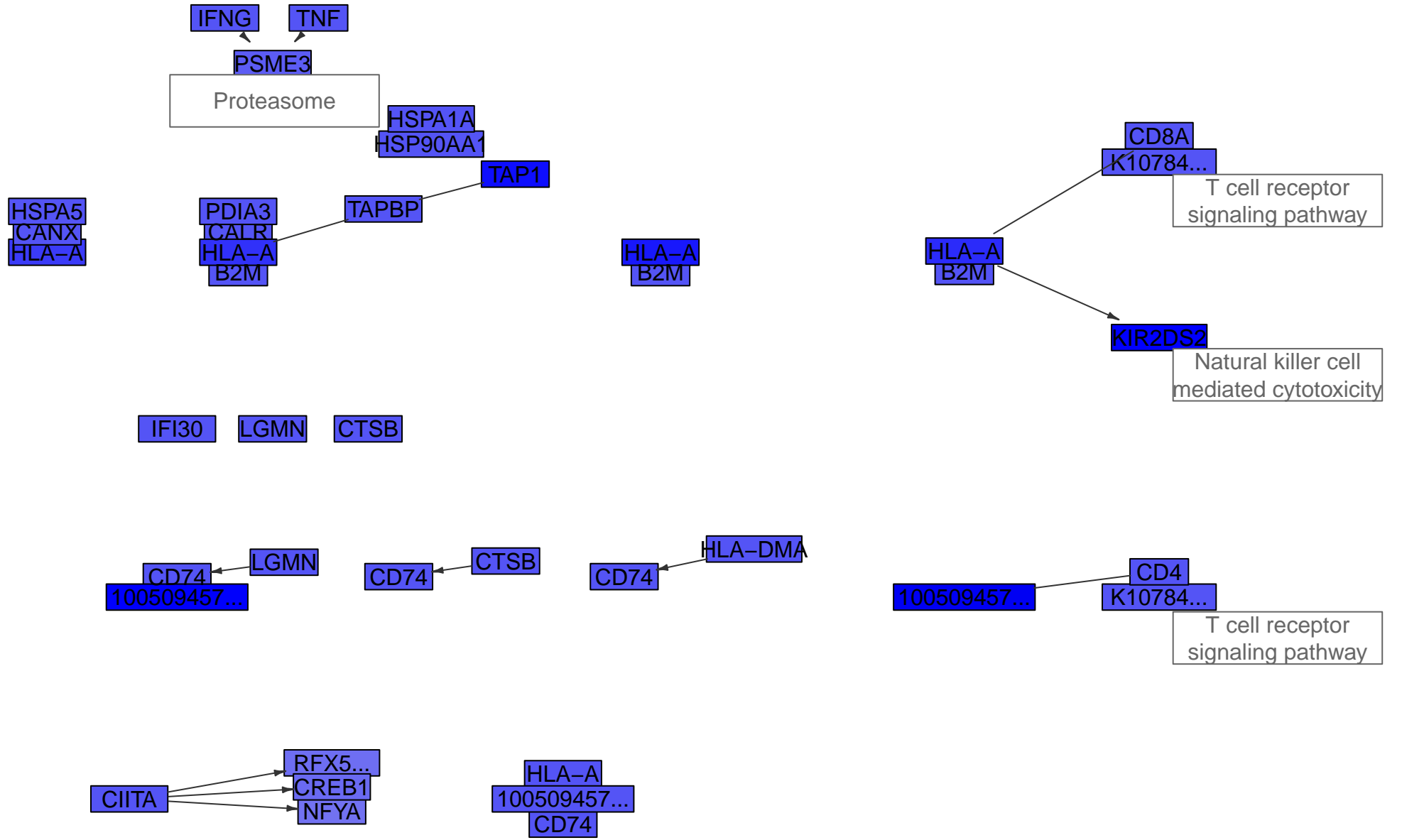
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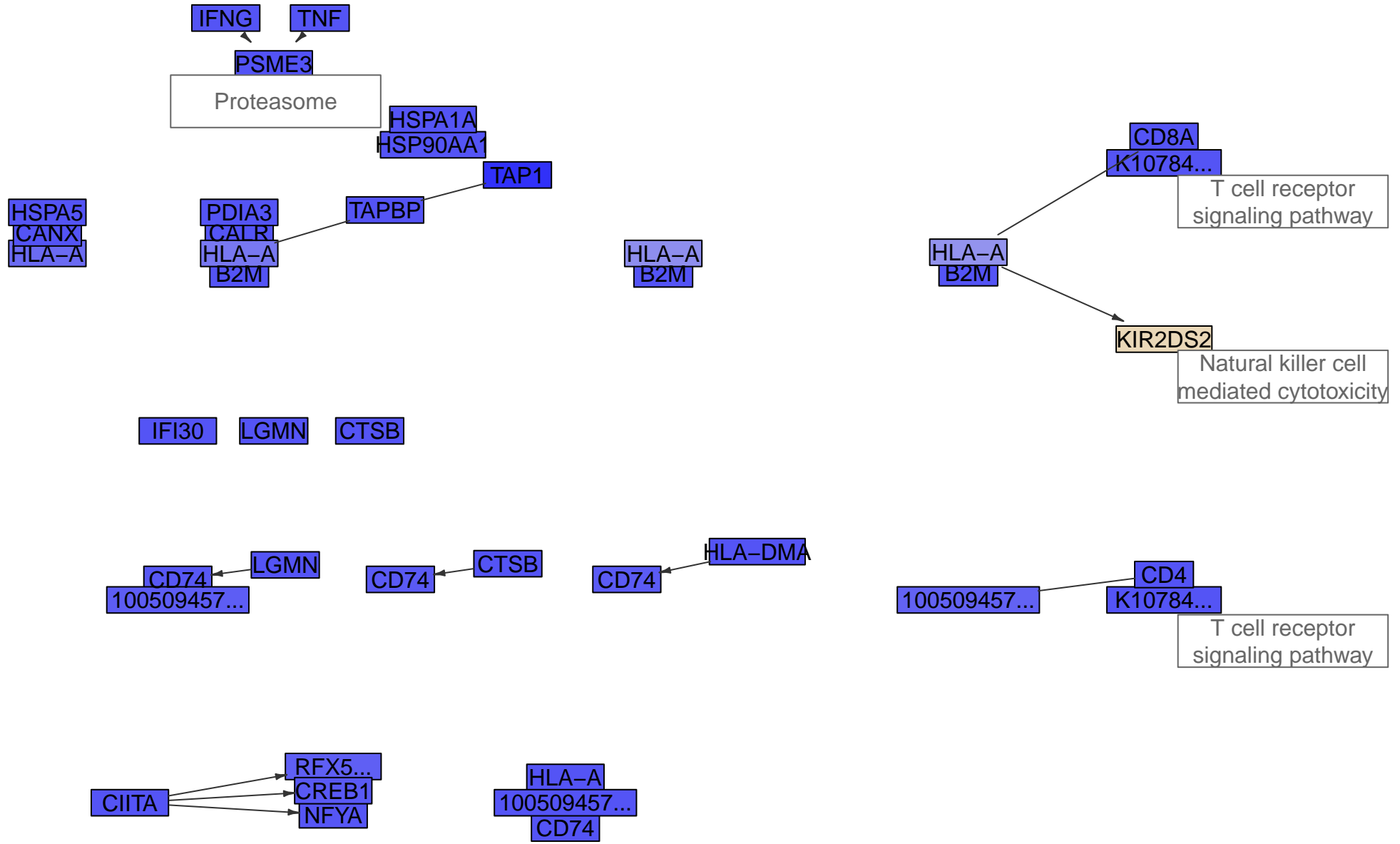
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MPI-063



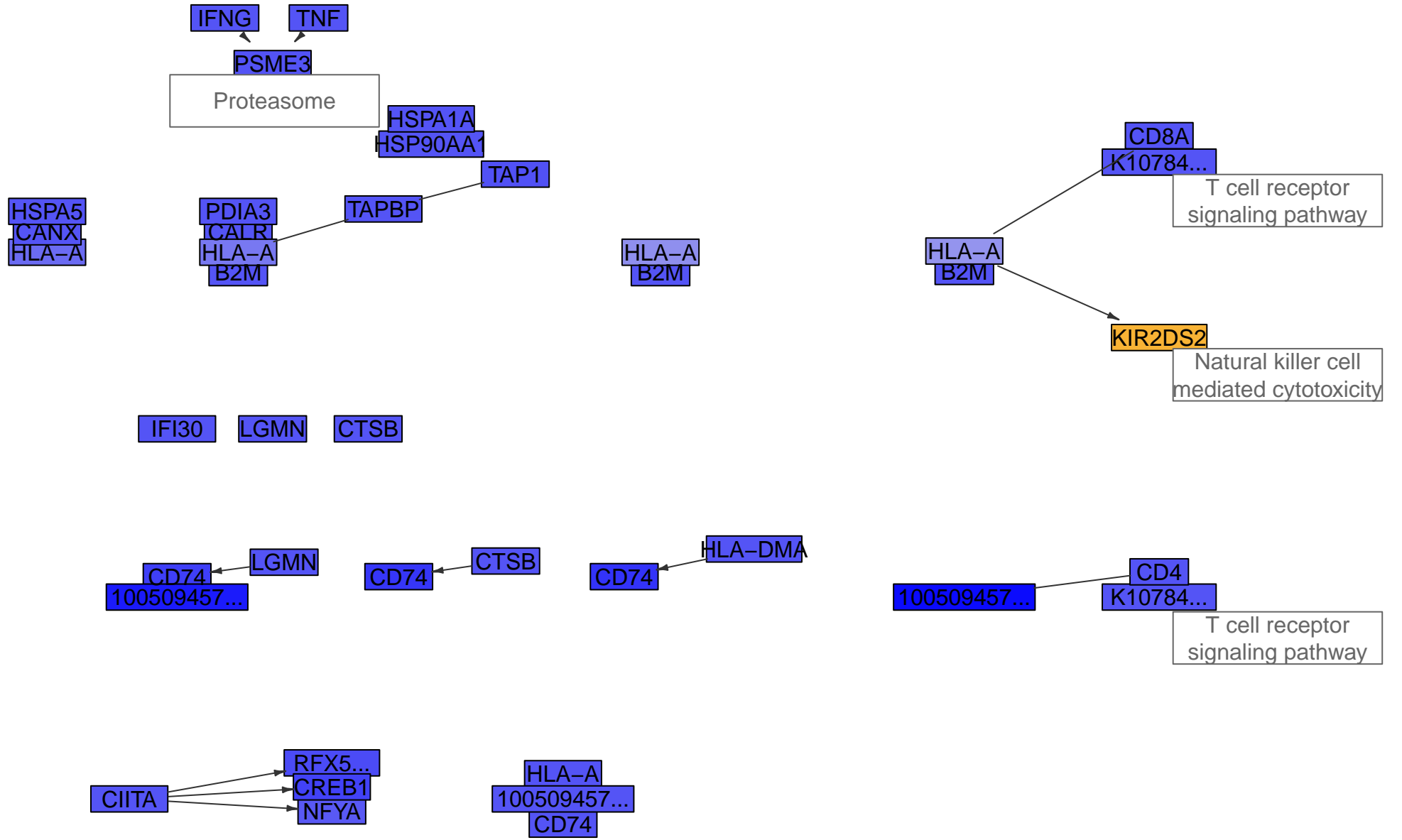
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MPI-069



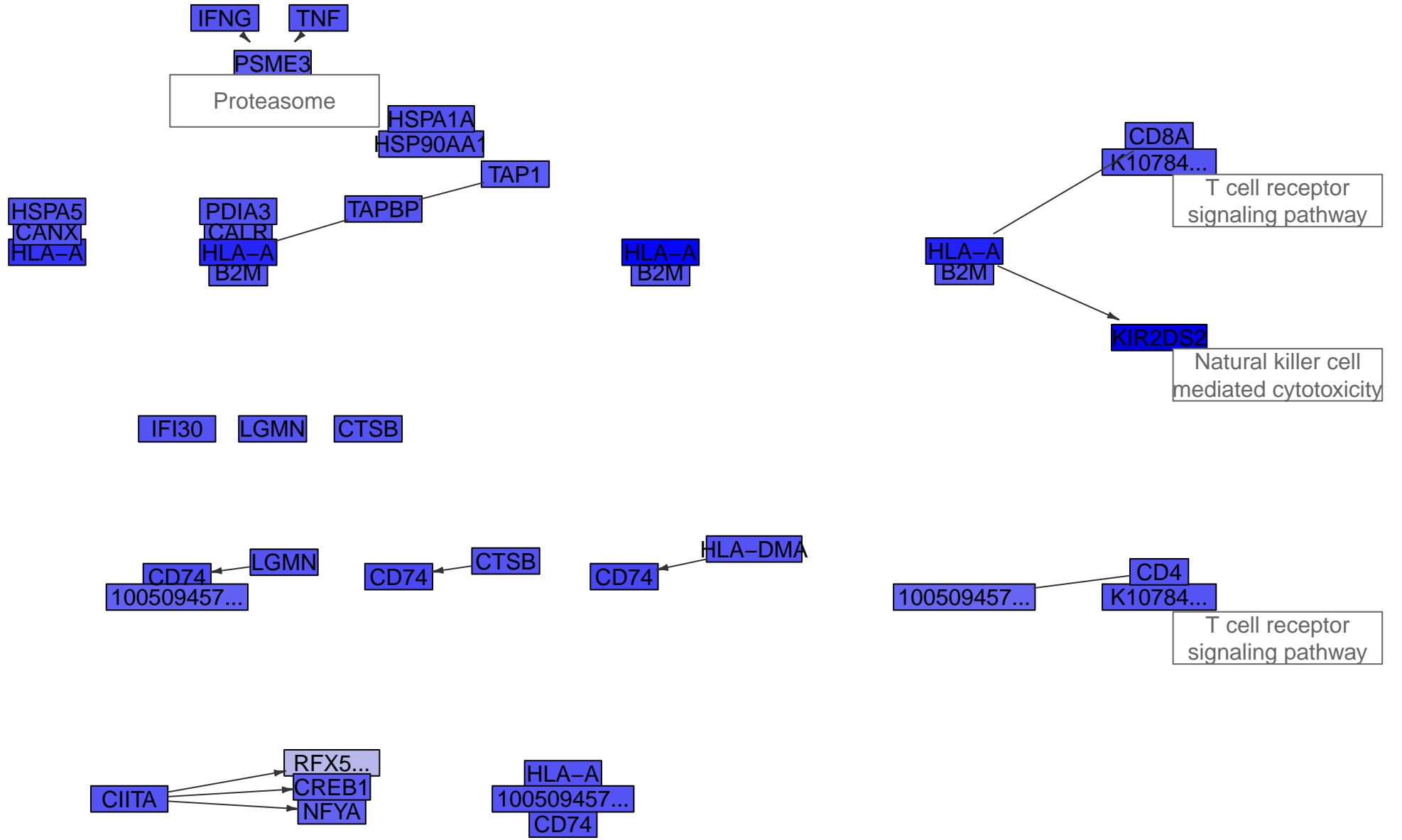
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MPI-073



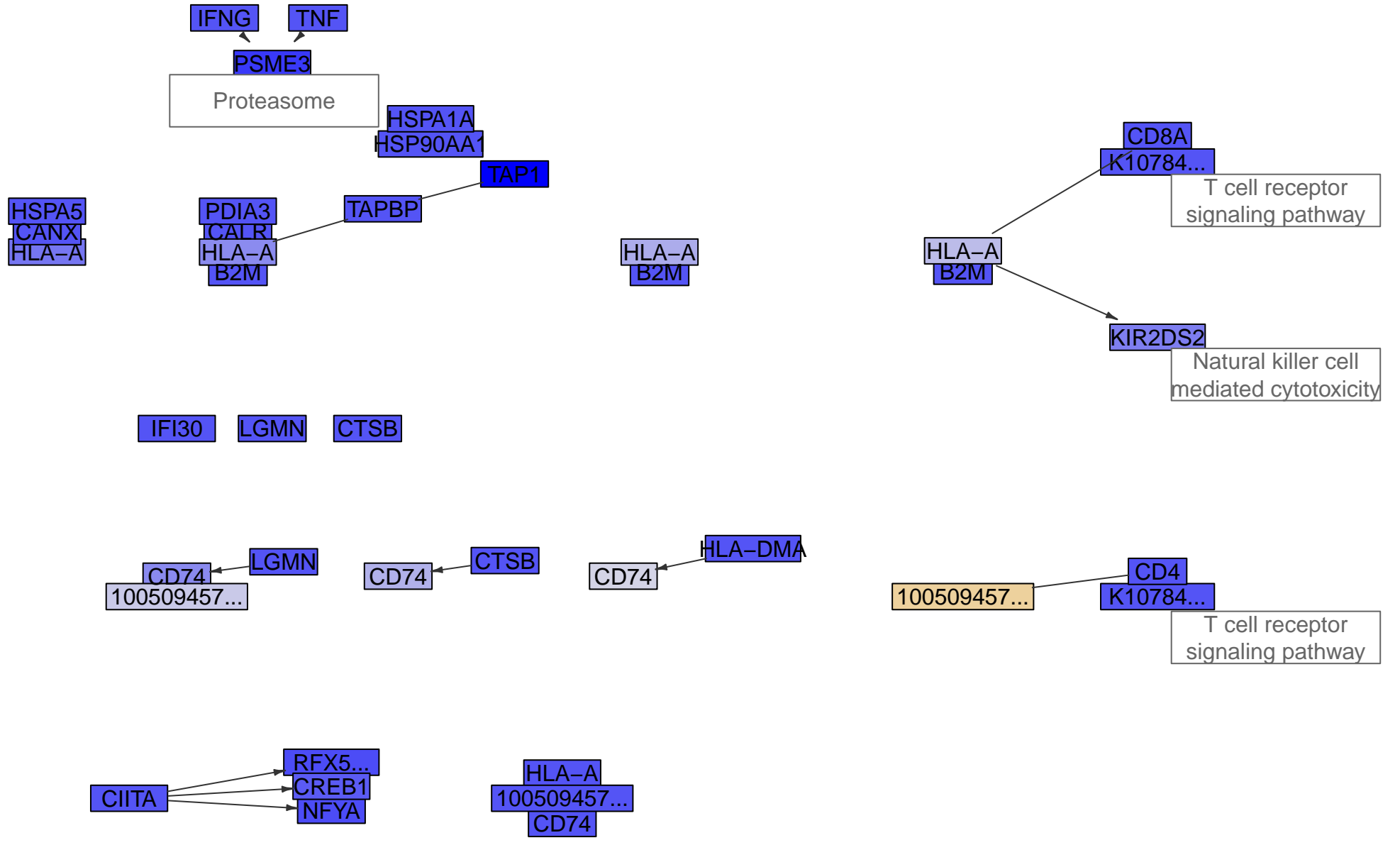
Antigen processing and presentation  
MPI-074



Antigen processing and presentation  
MPI-076



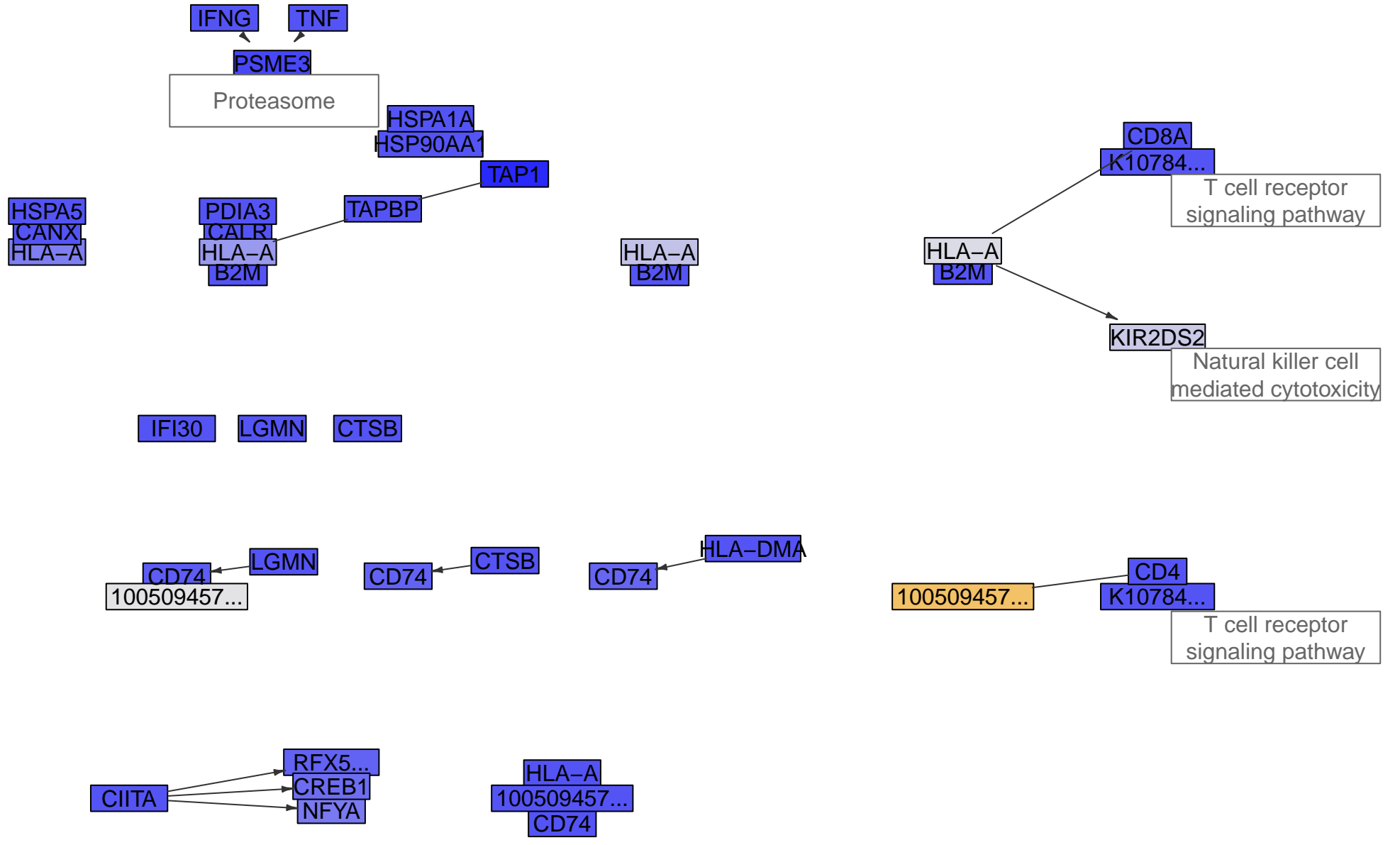
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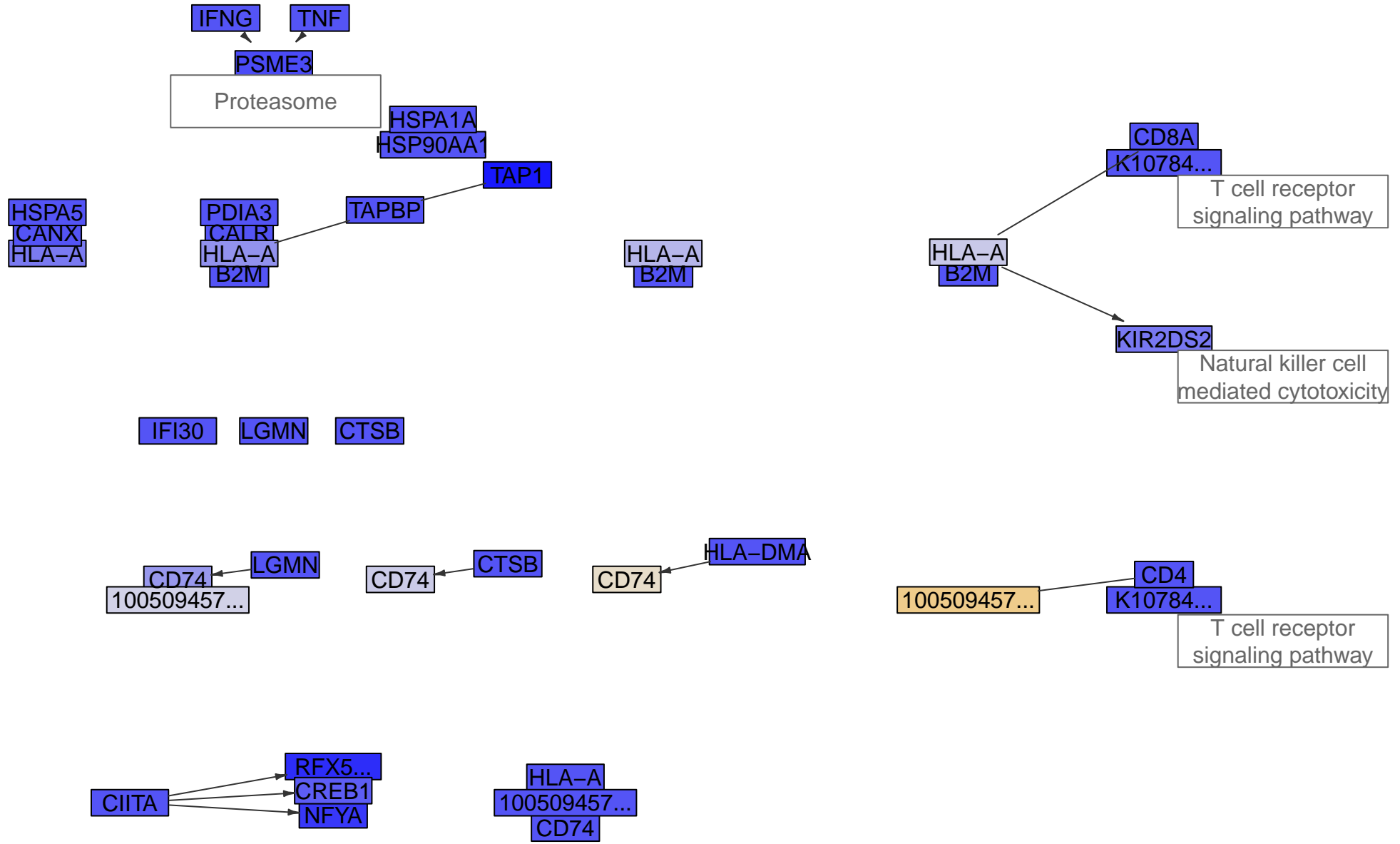




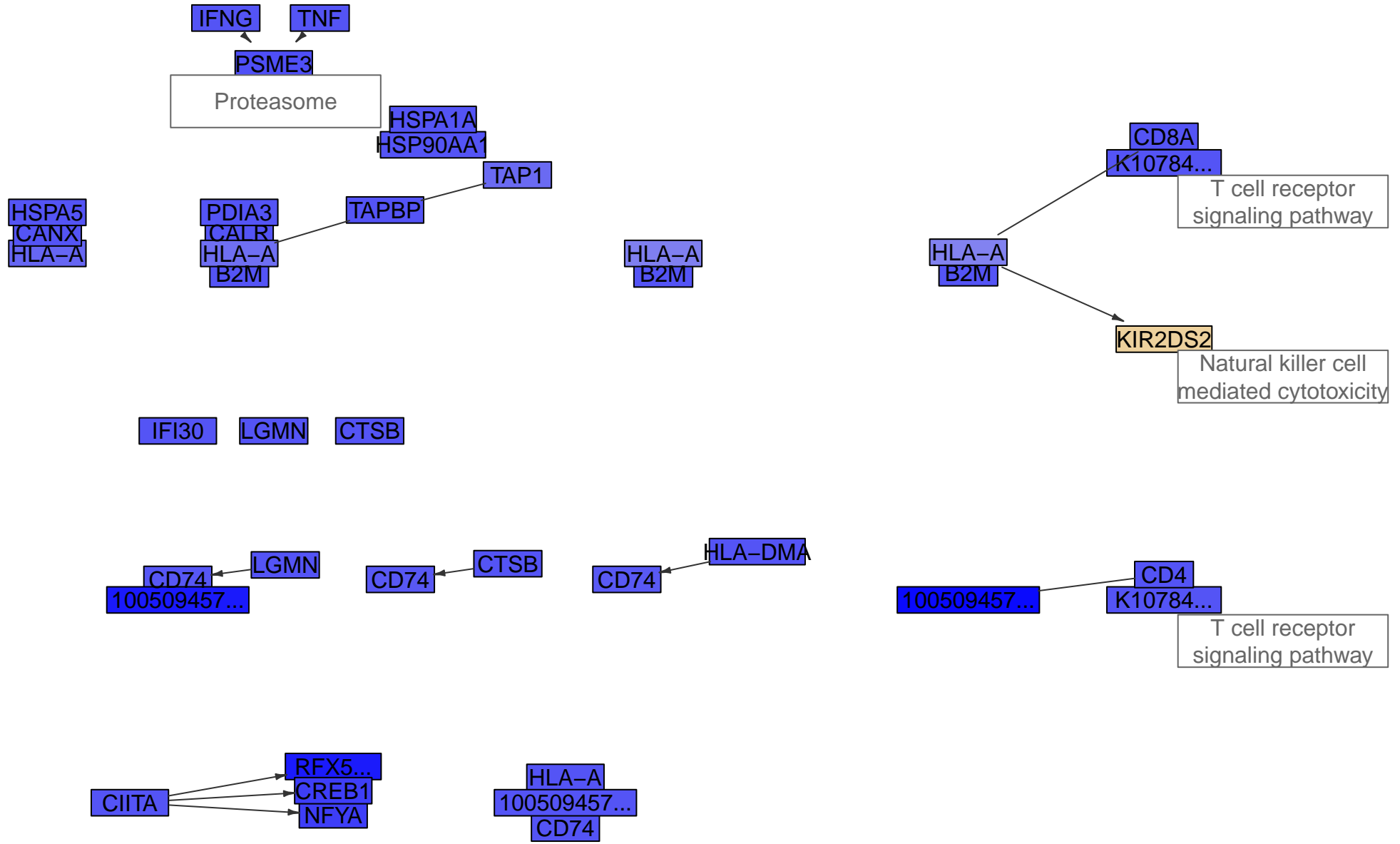
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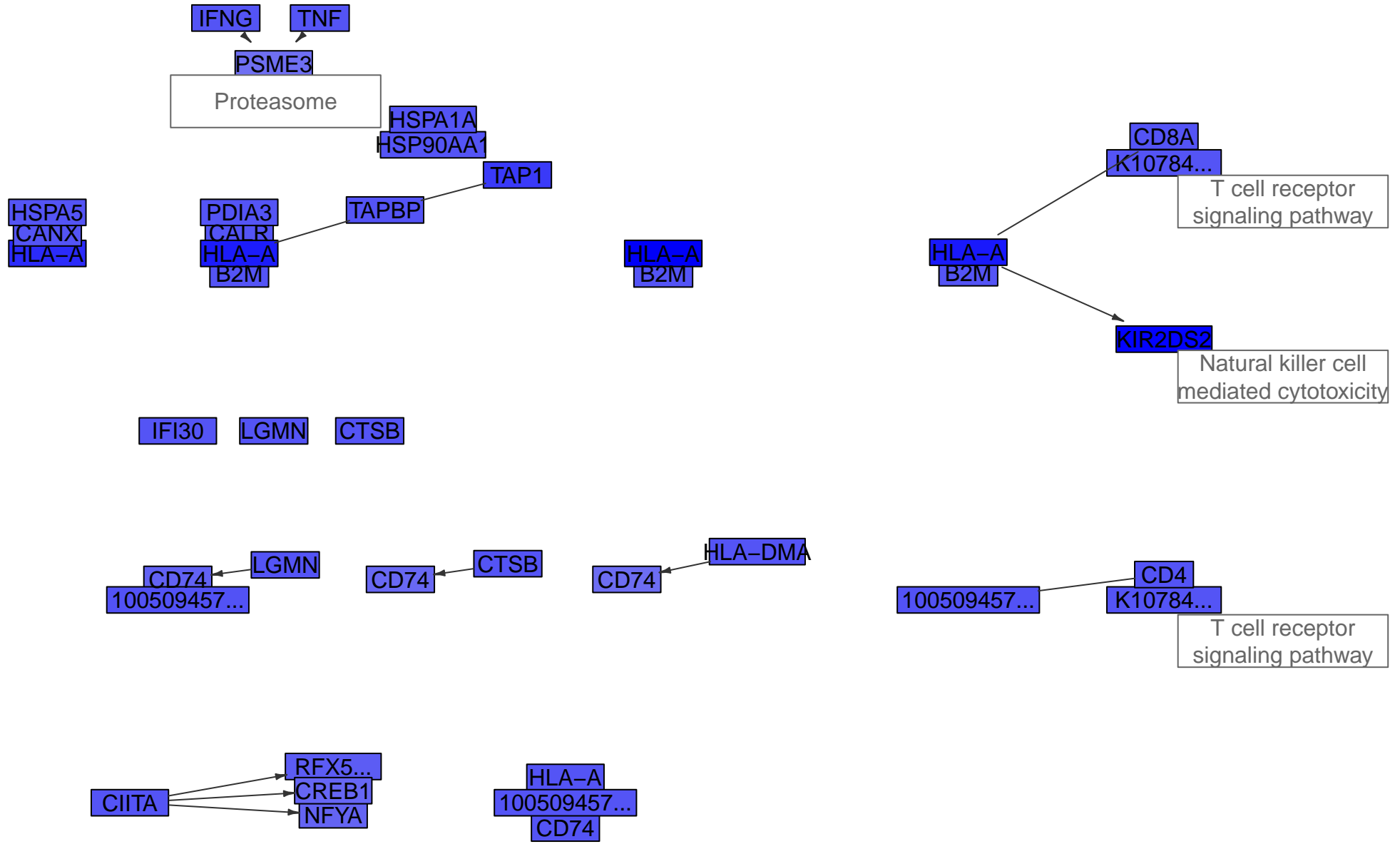
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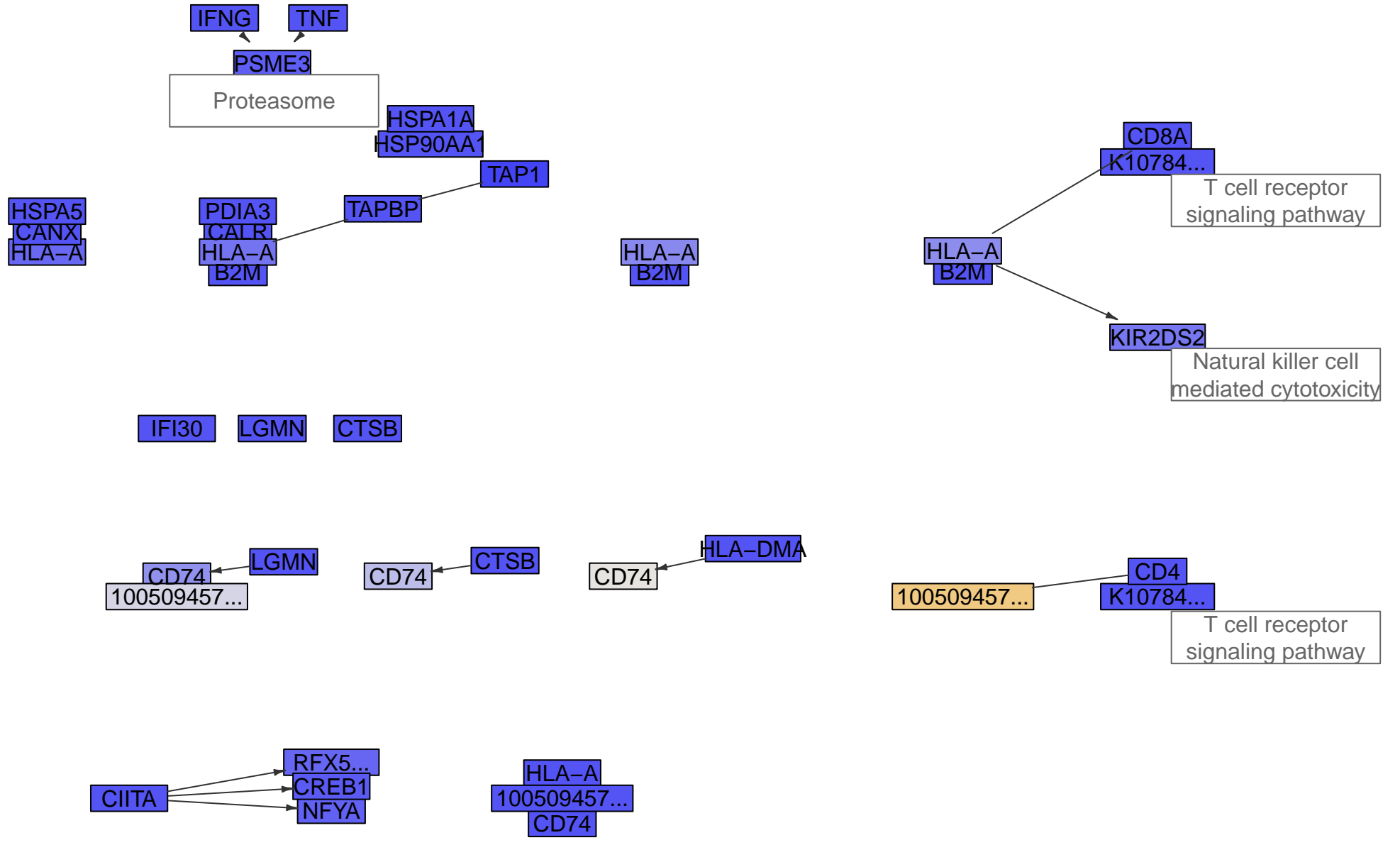
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MPI-098



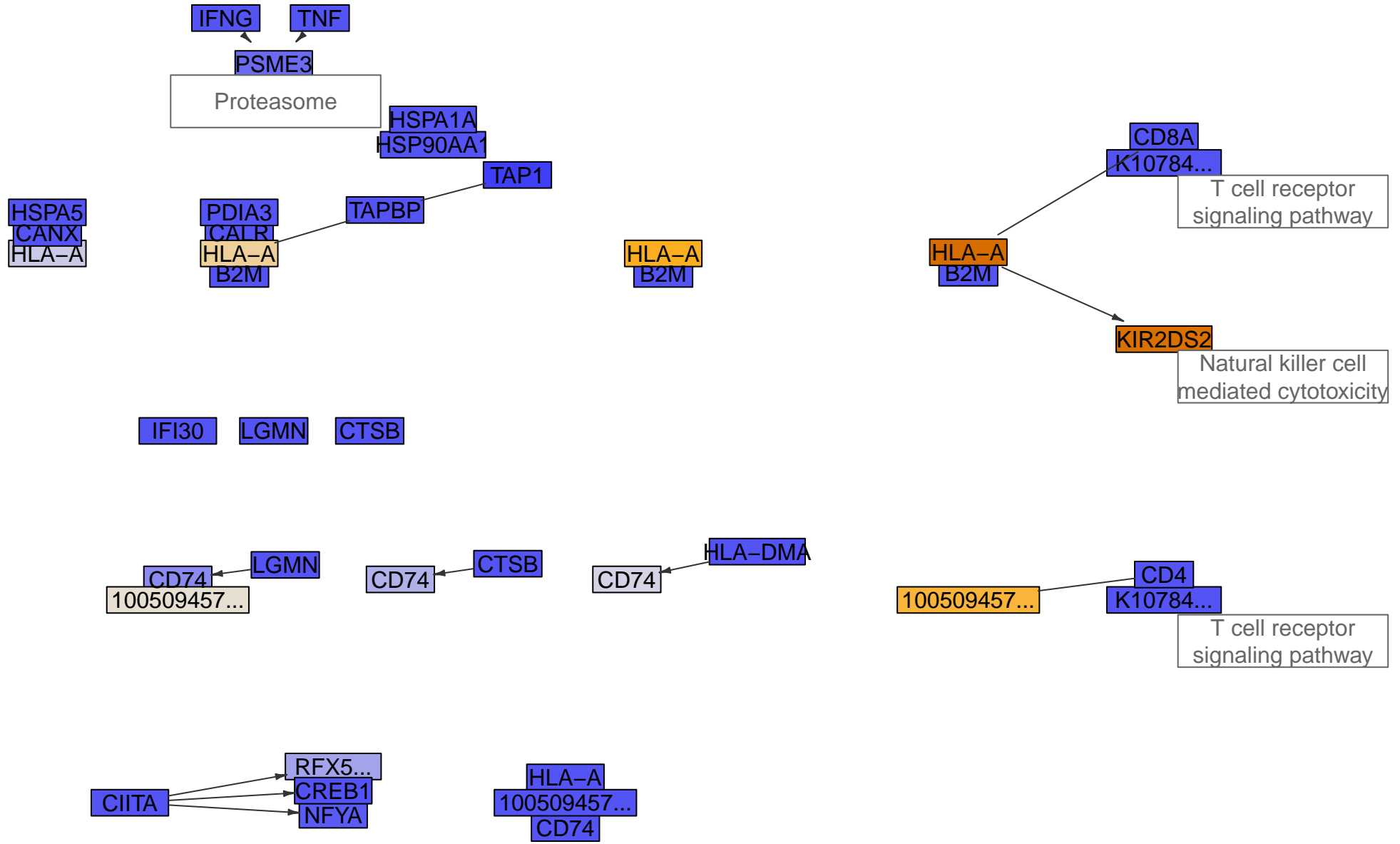
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MPI-100



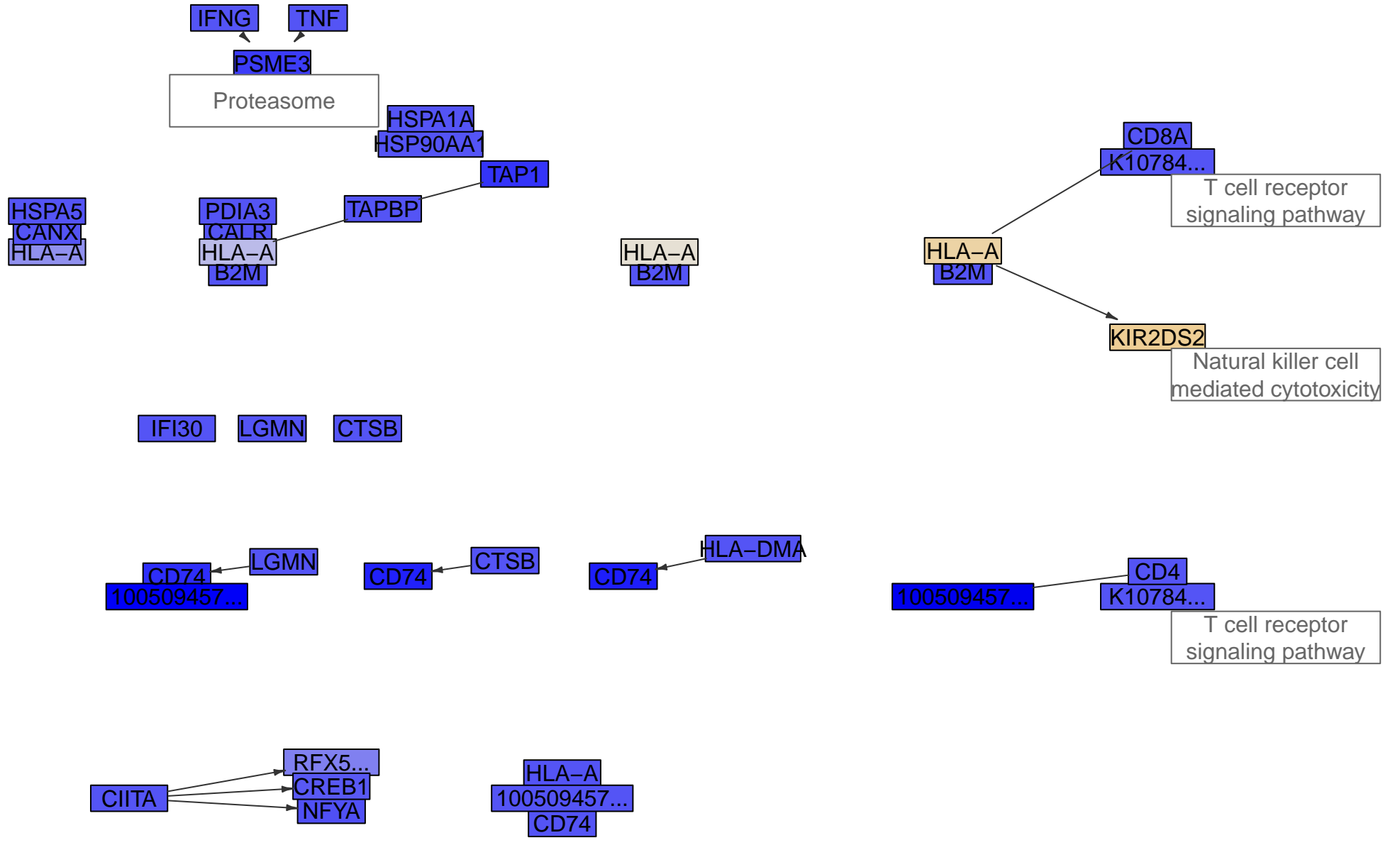
Antigen processing and presentation  
MPI-105



Antigen processing and presentation  
MPI-106

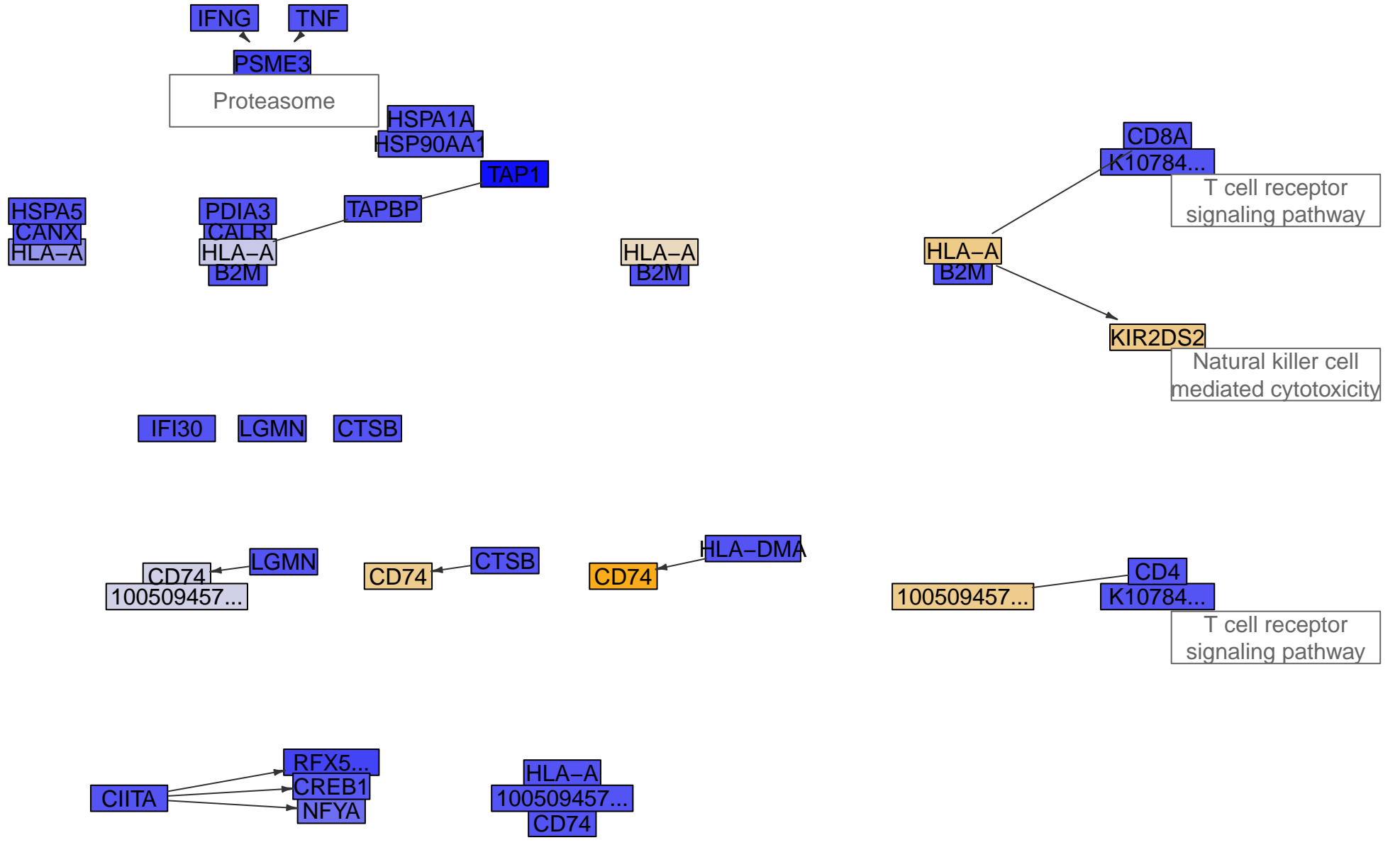


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MPI-108

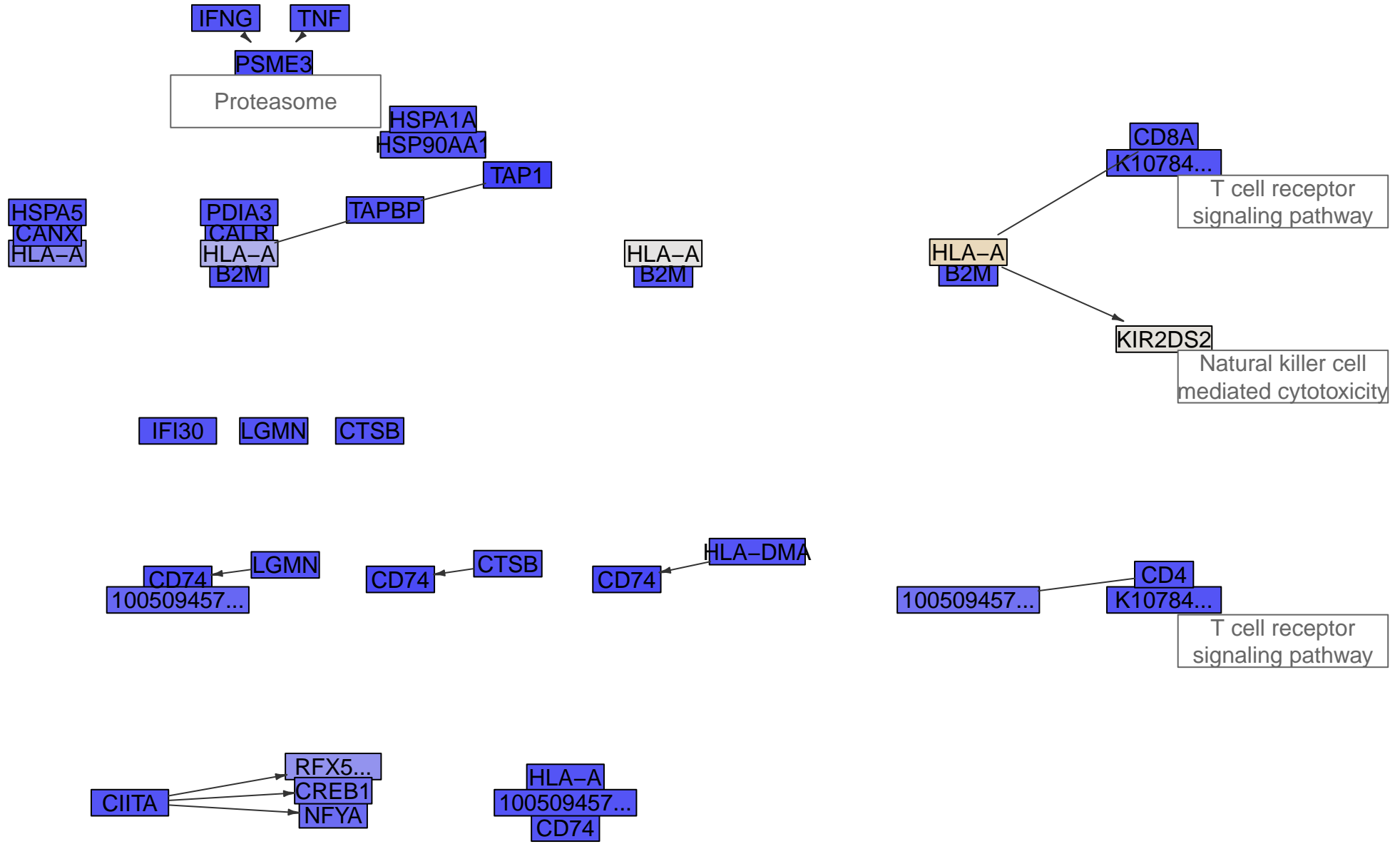




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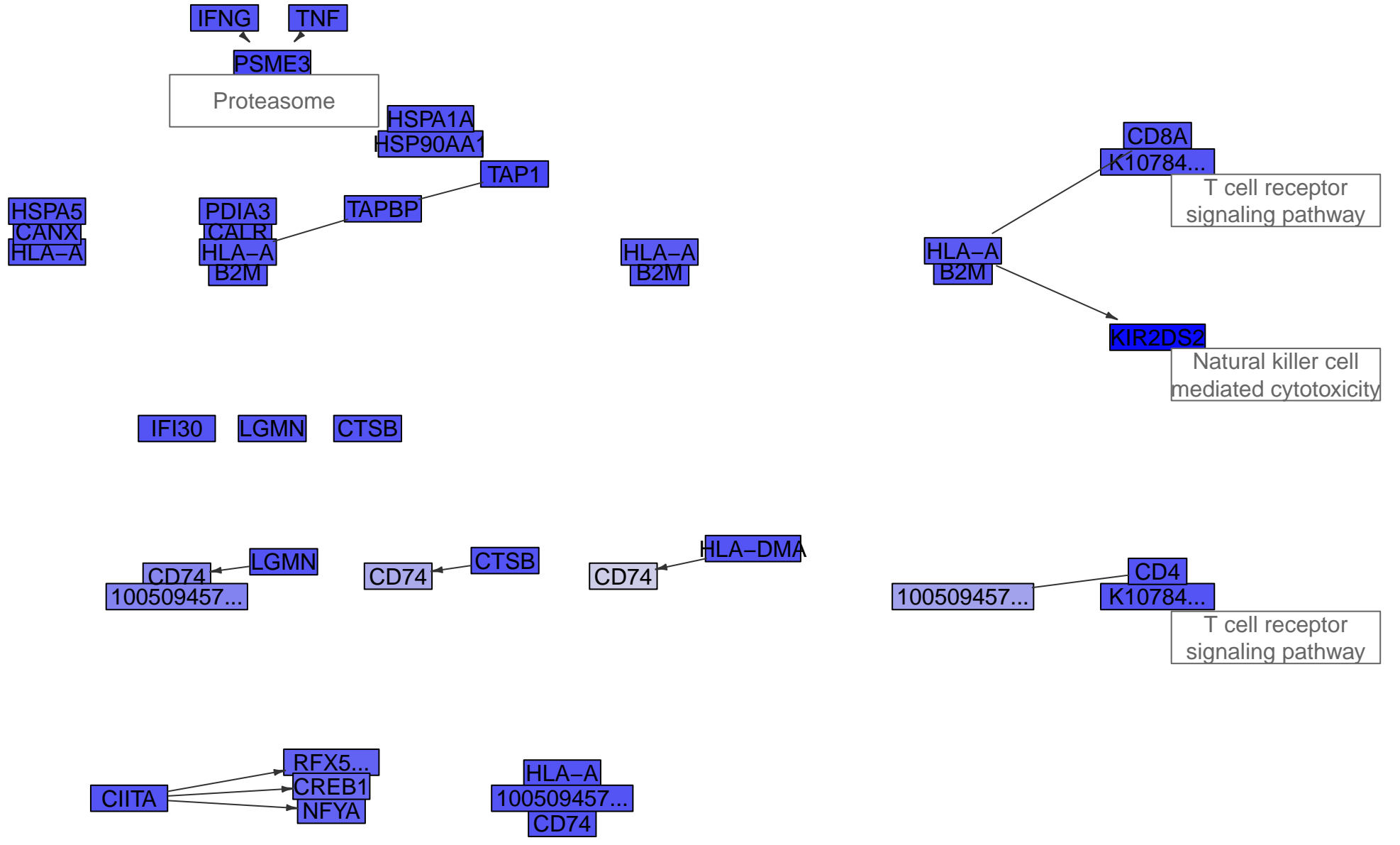


Antigen processing and presentation  
MPI-110

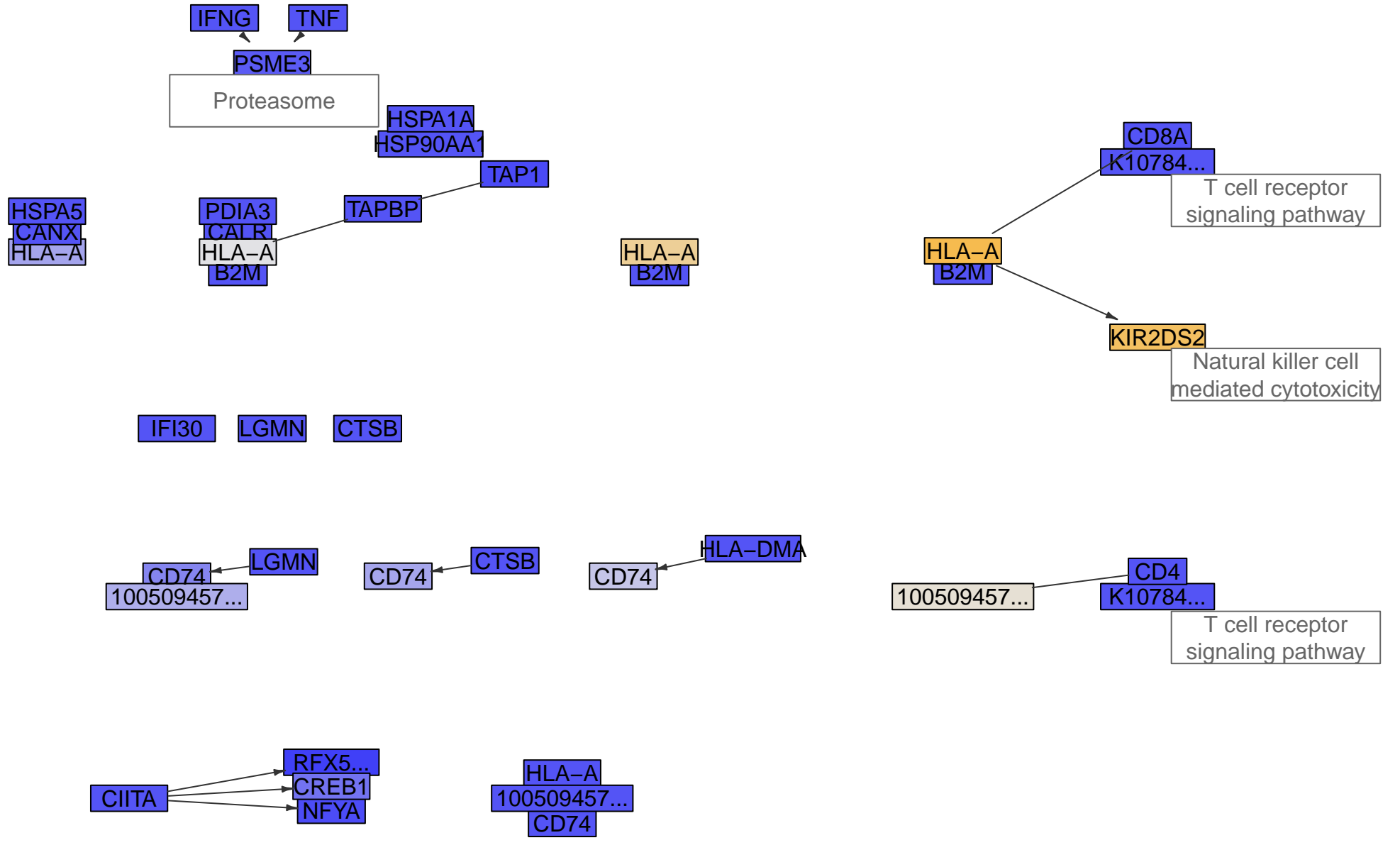




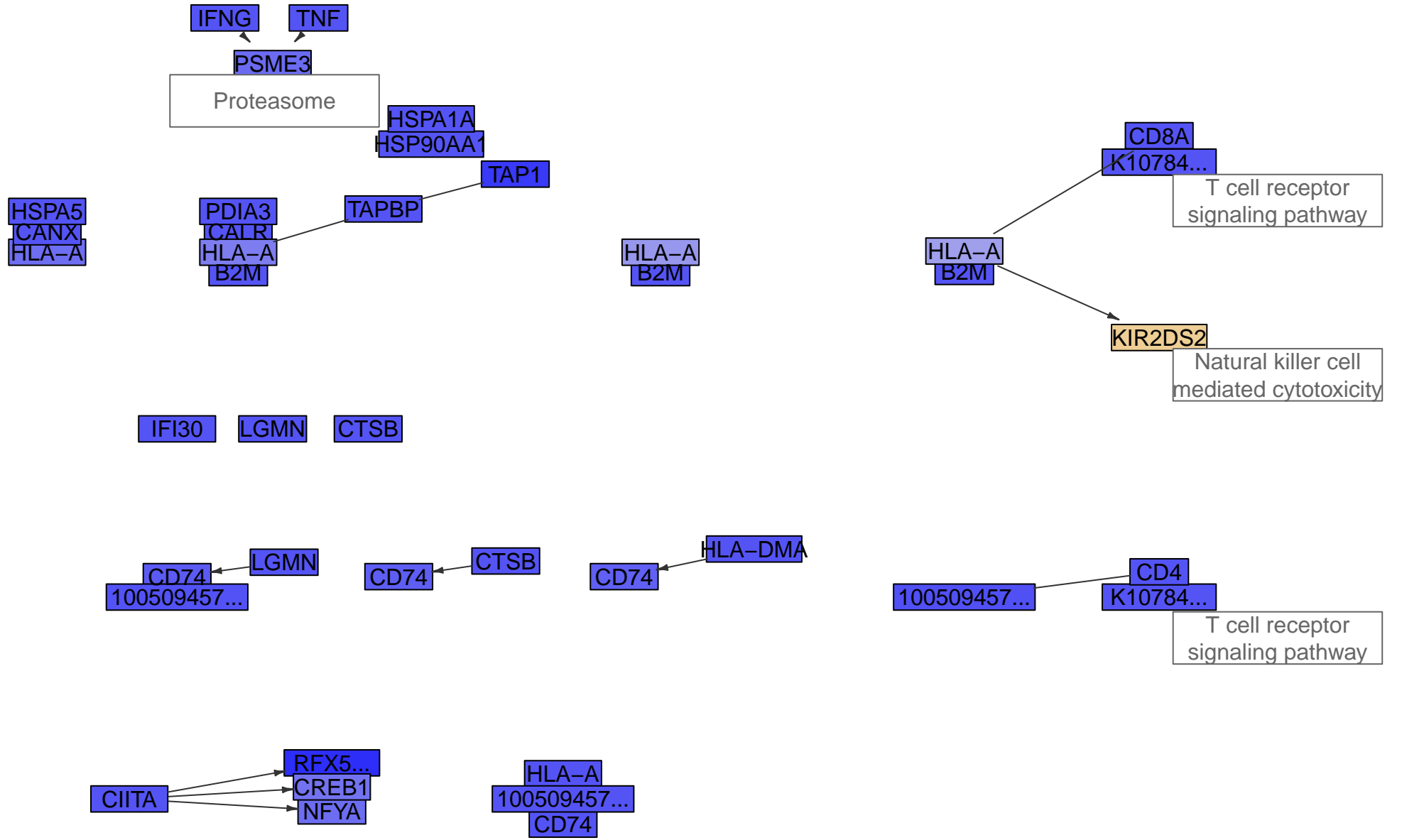
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MPI-113



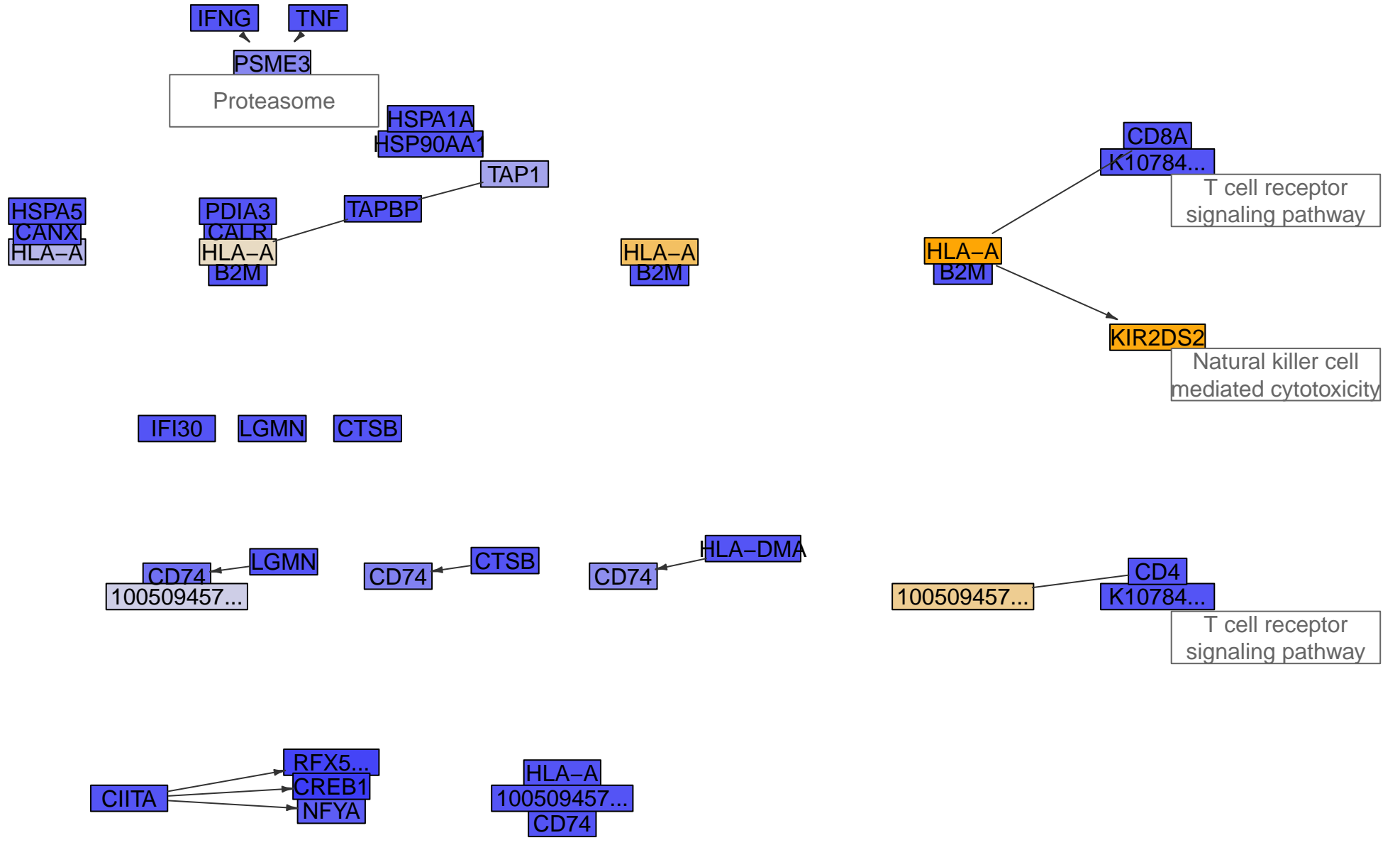
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MPI-115



Antigen processing and presentation  
MPI-118



Antigen processing and presentation  
MPI-119

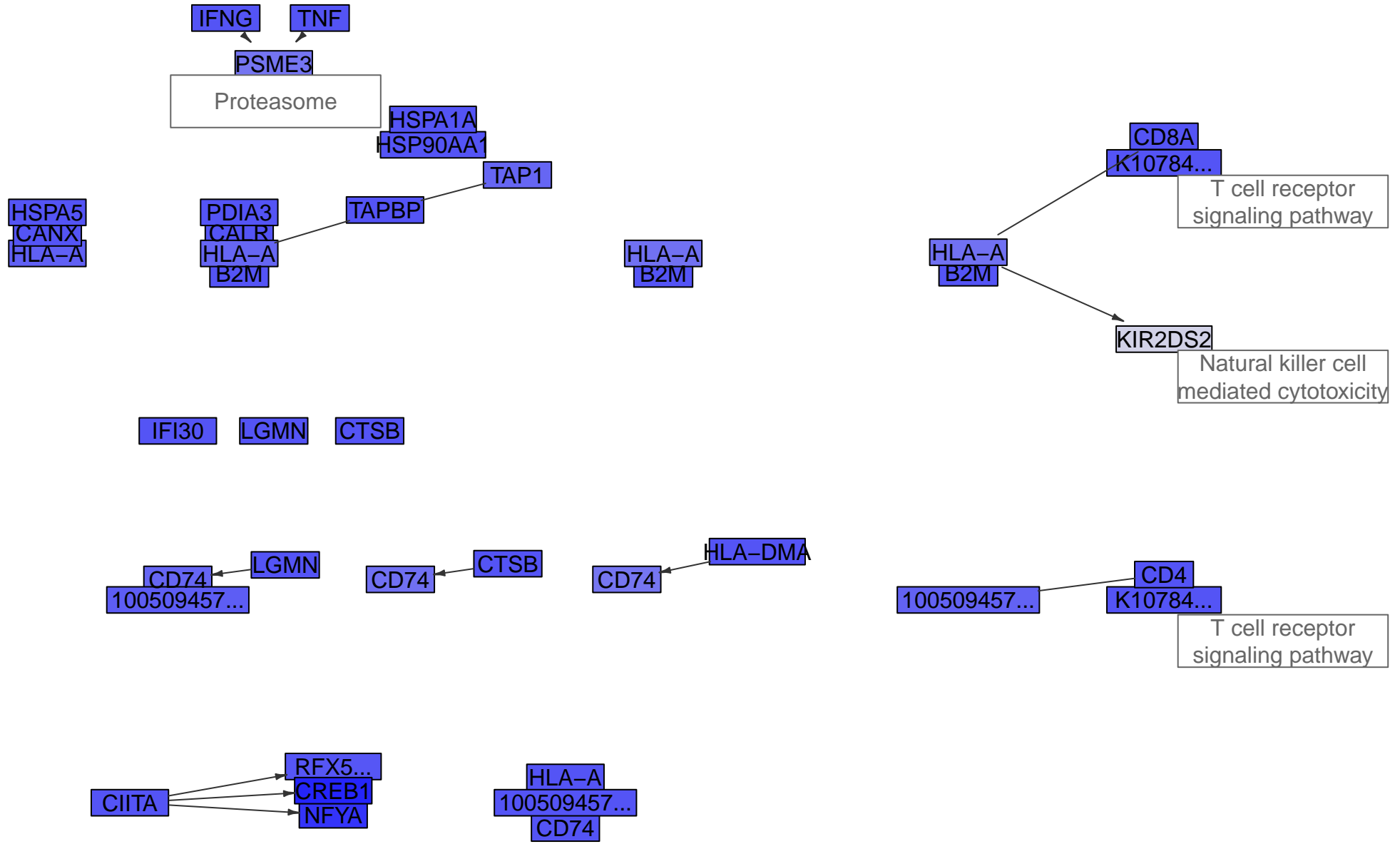




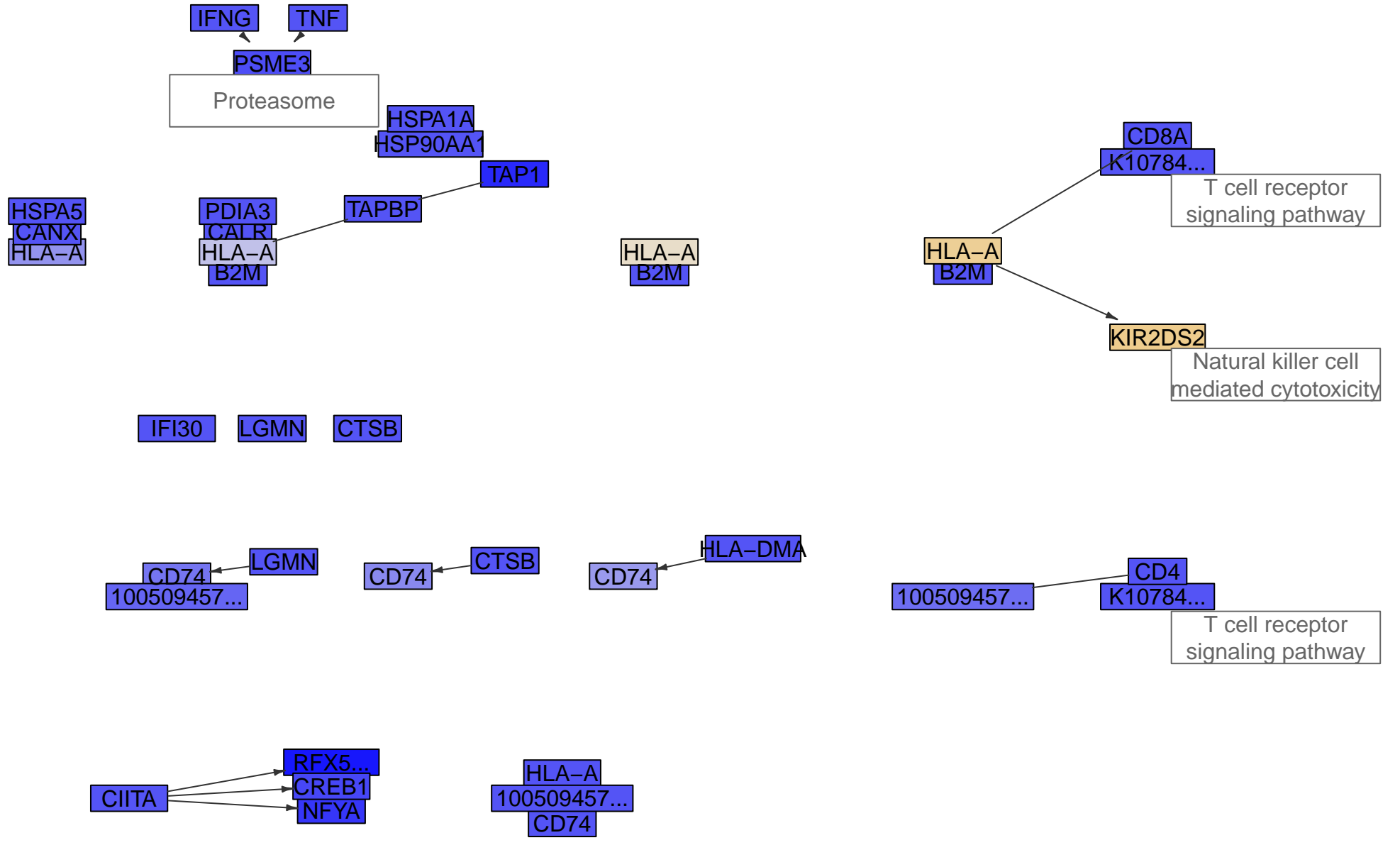




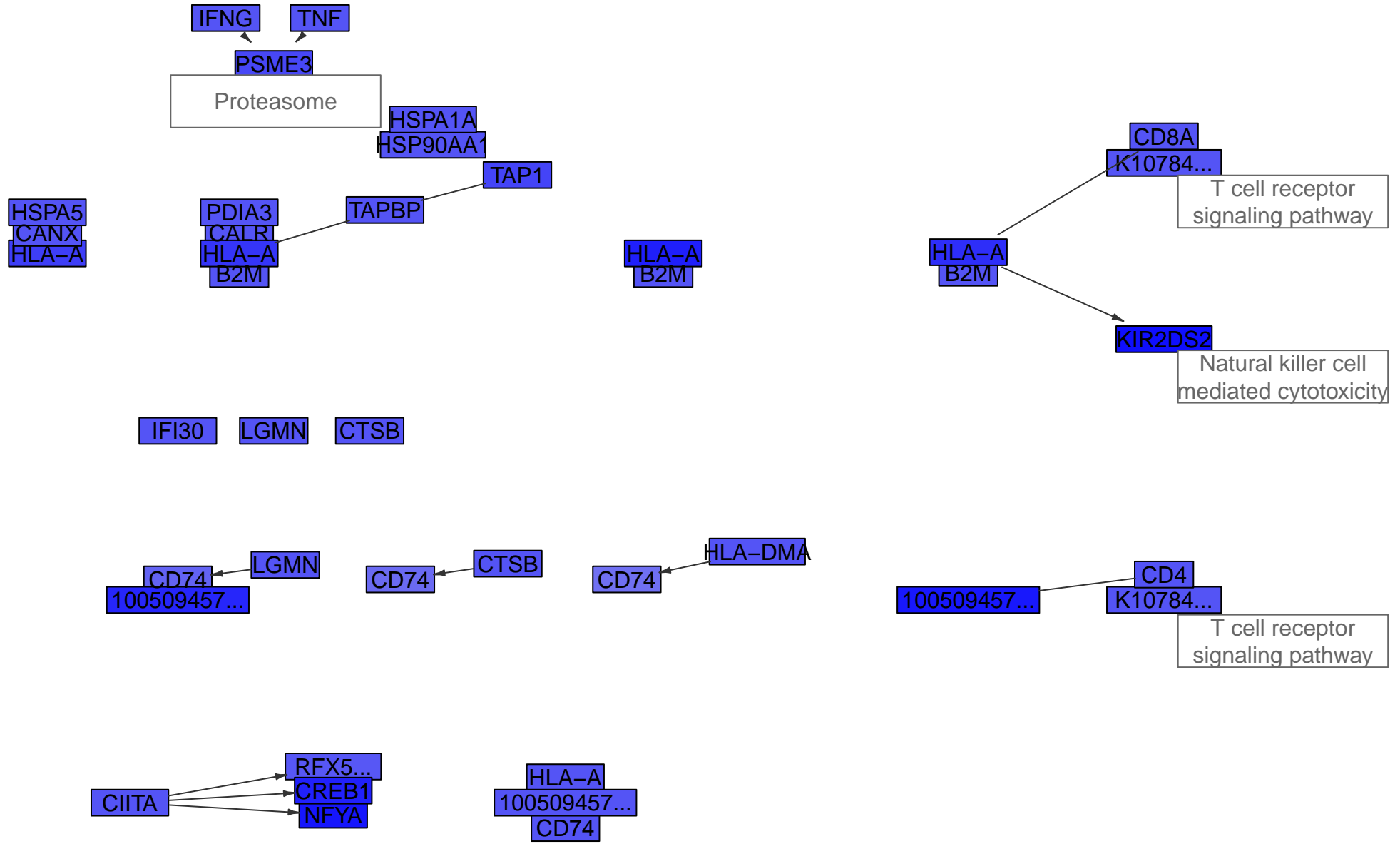
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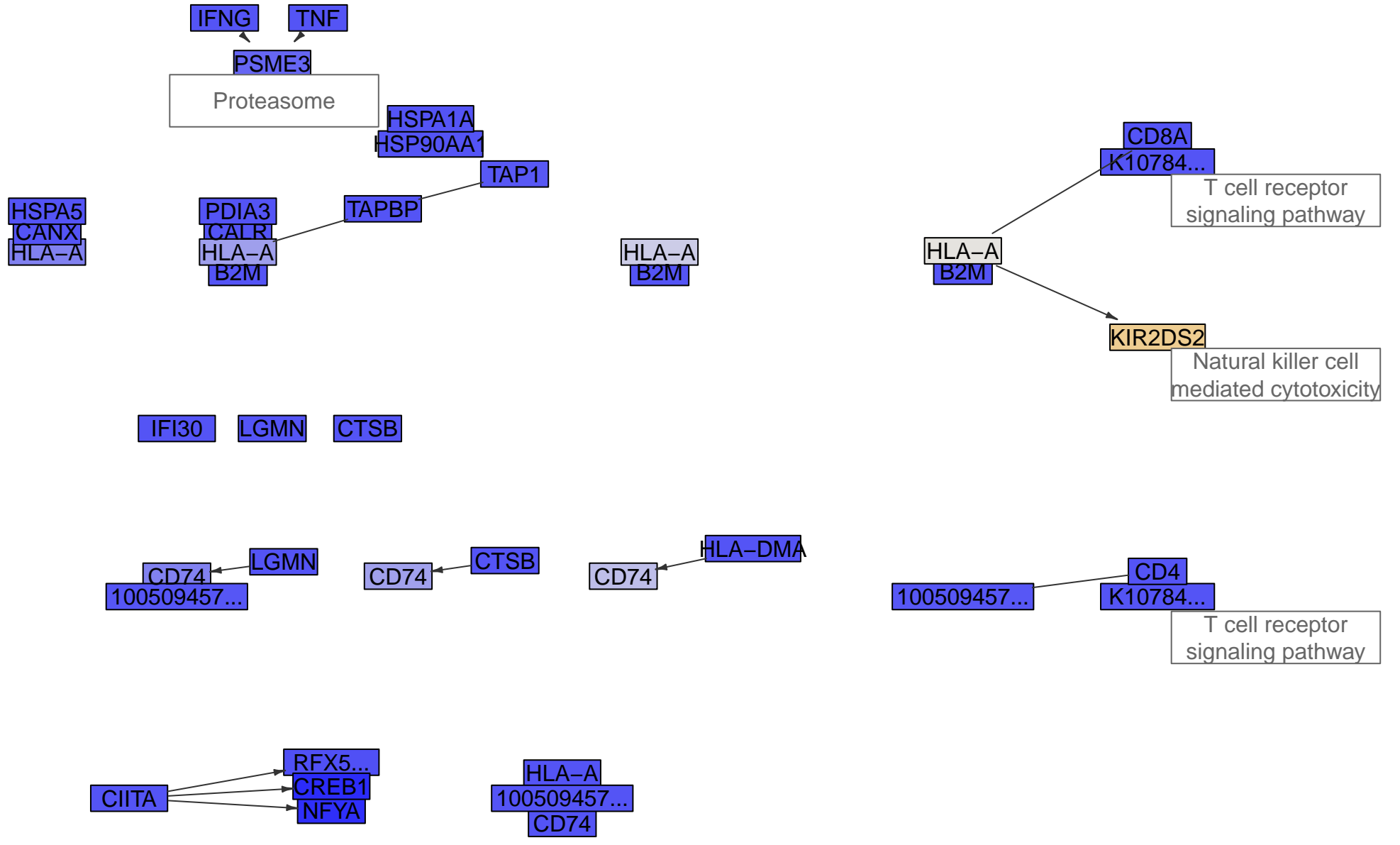
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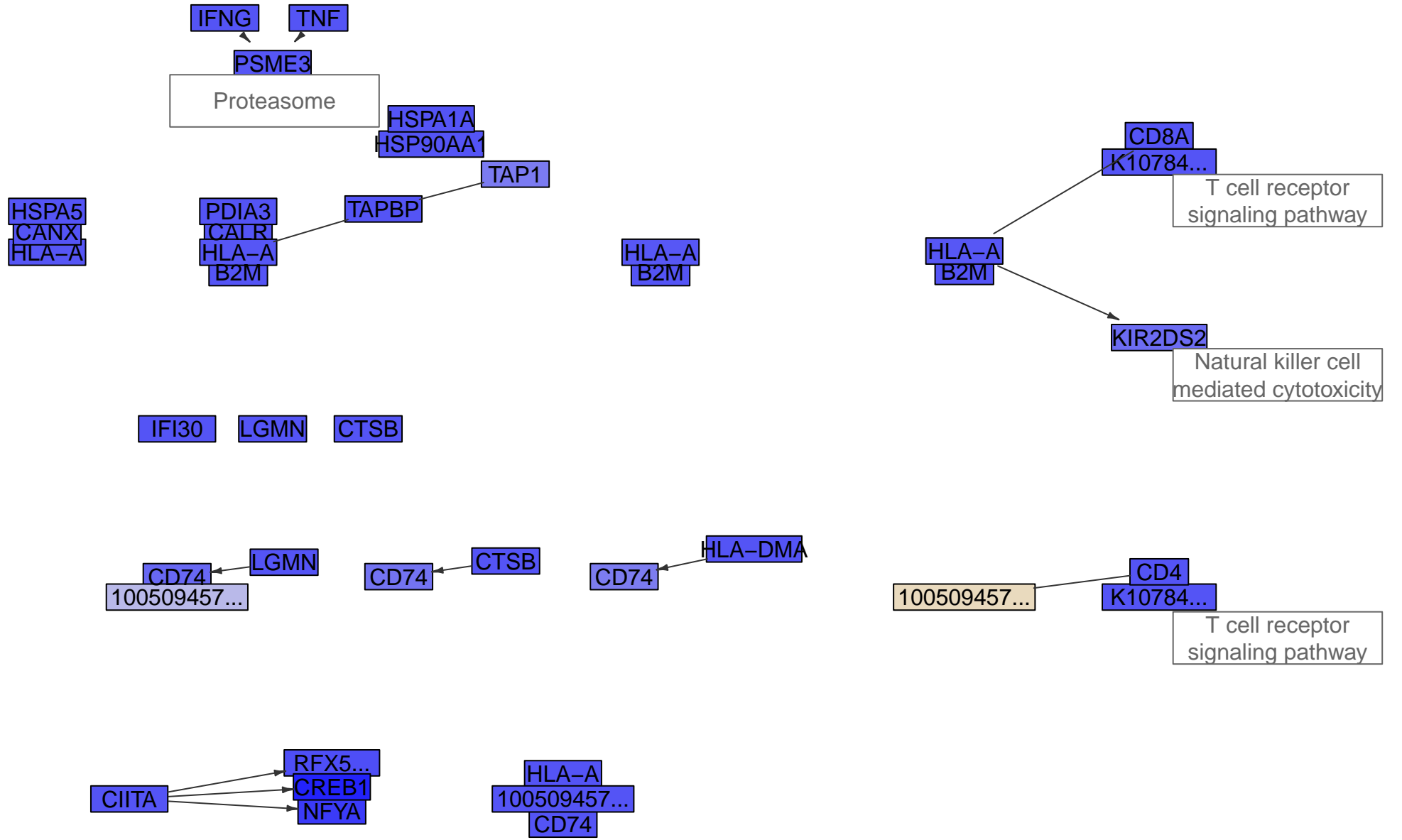
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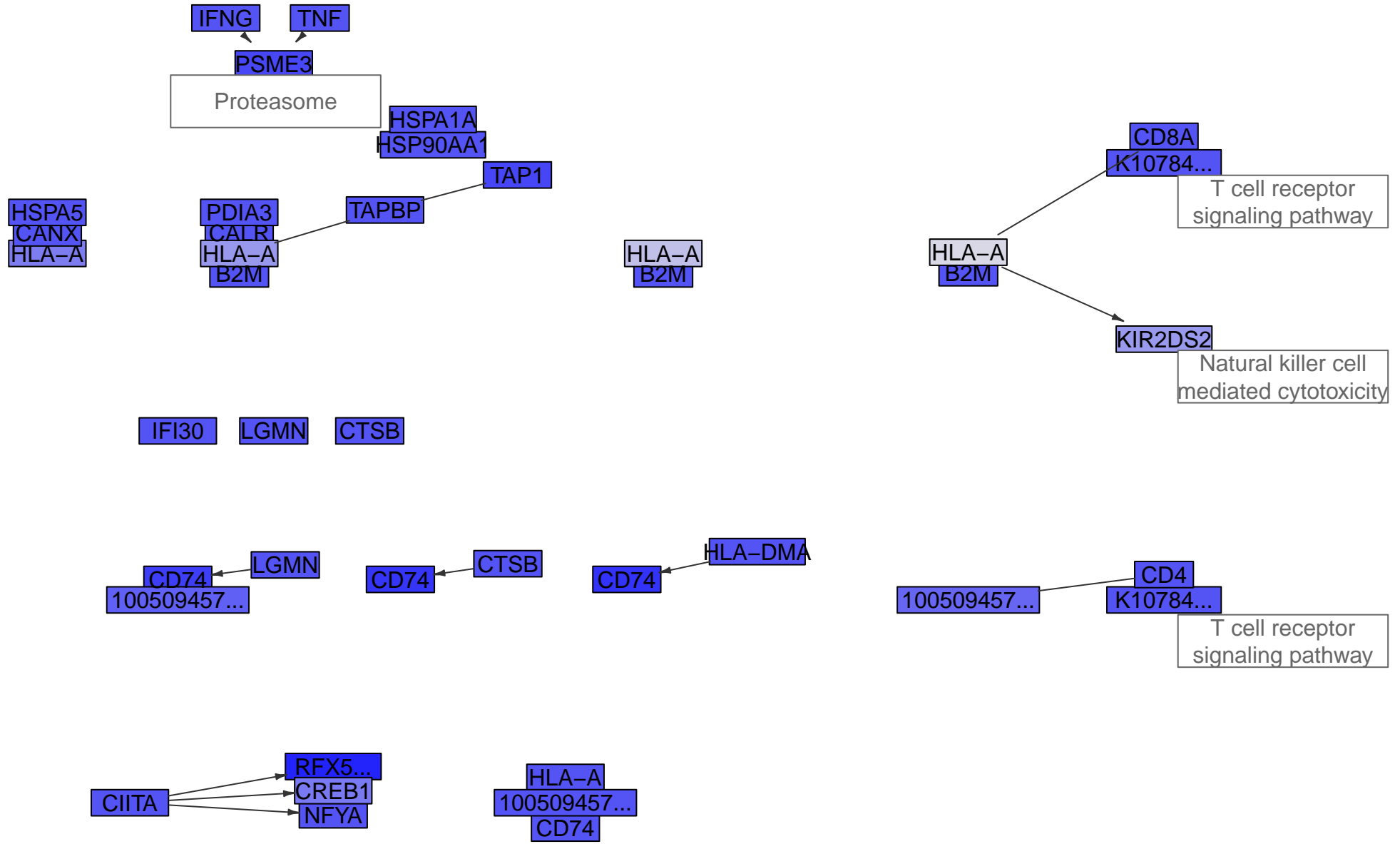
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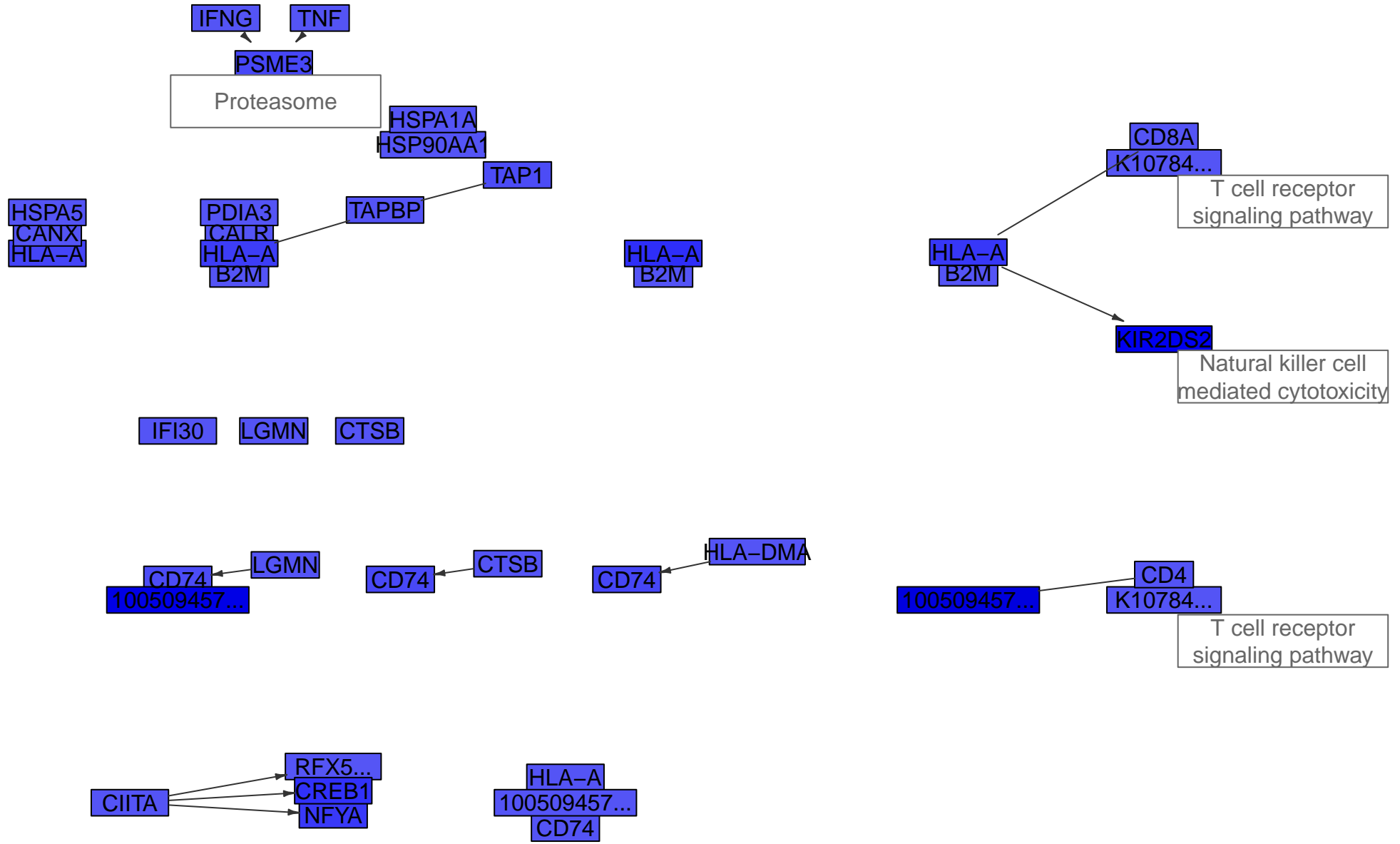
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MPI-133



Antigen processing and presentation  
MPI-134

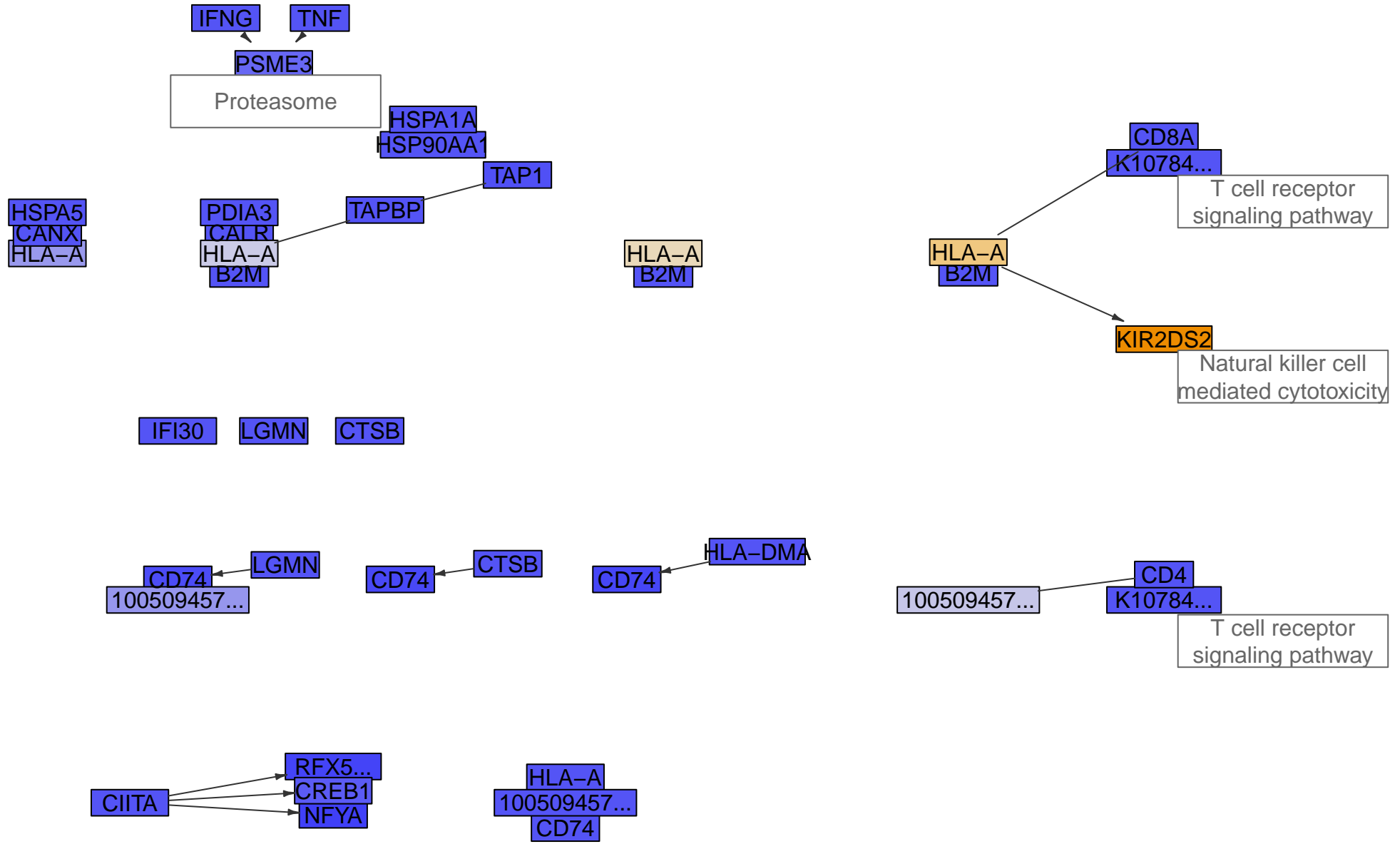


Antigen processing and presentation  
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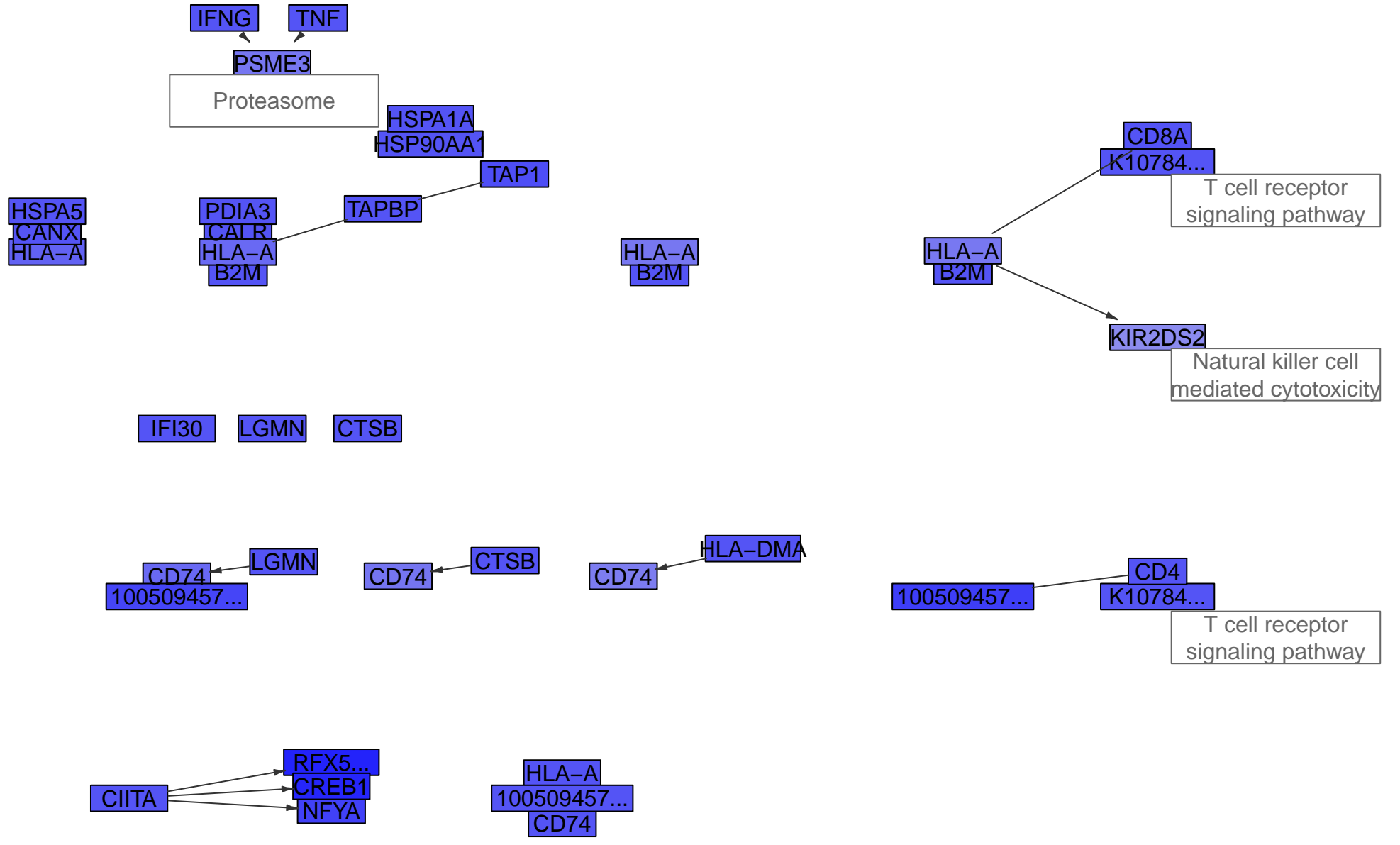




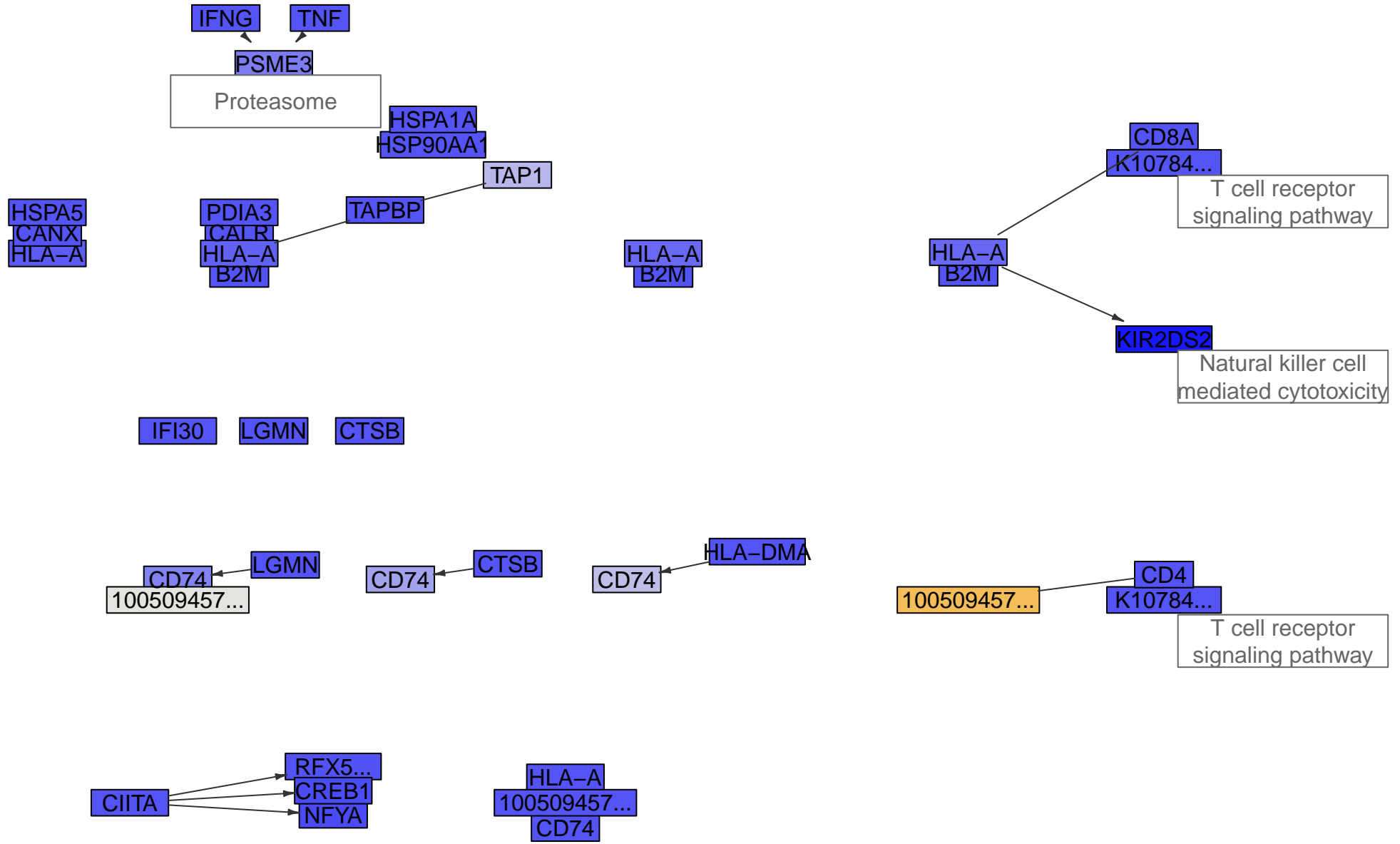
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MPI-136



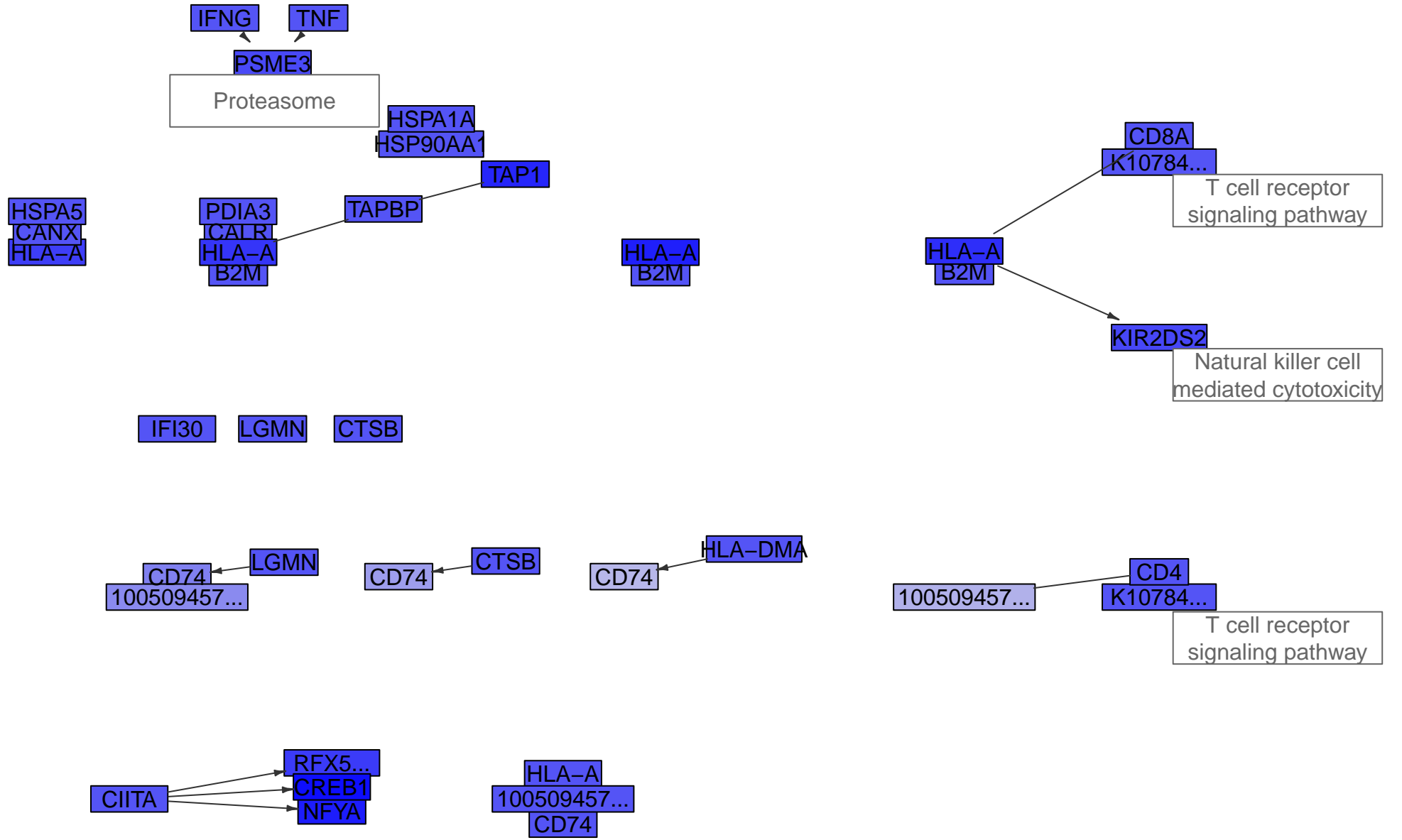
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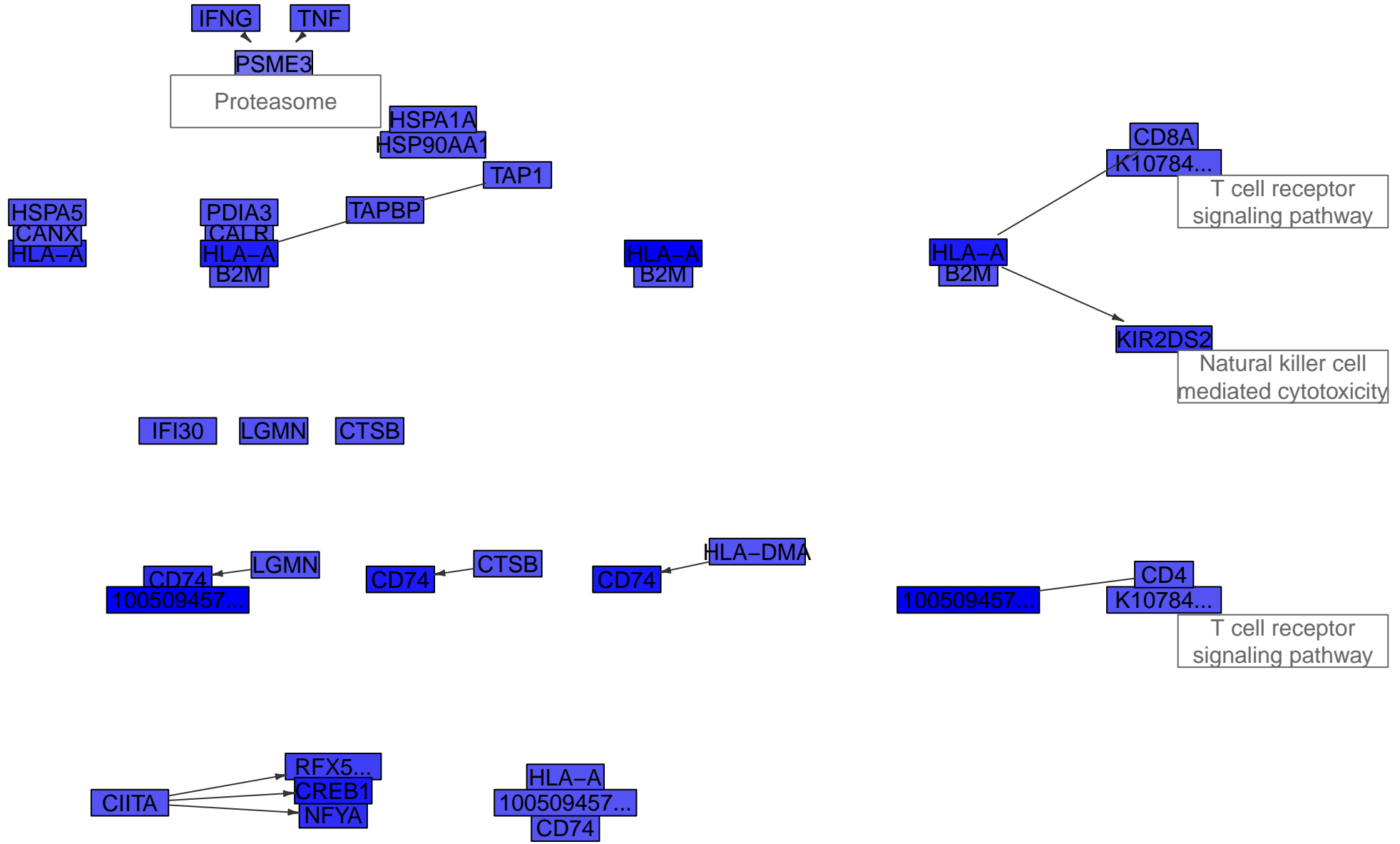
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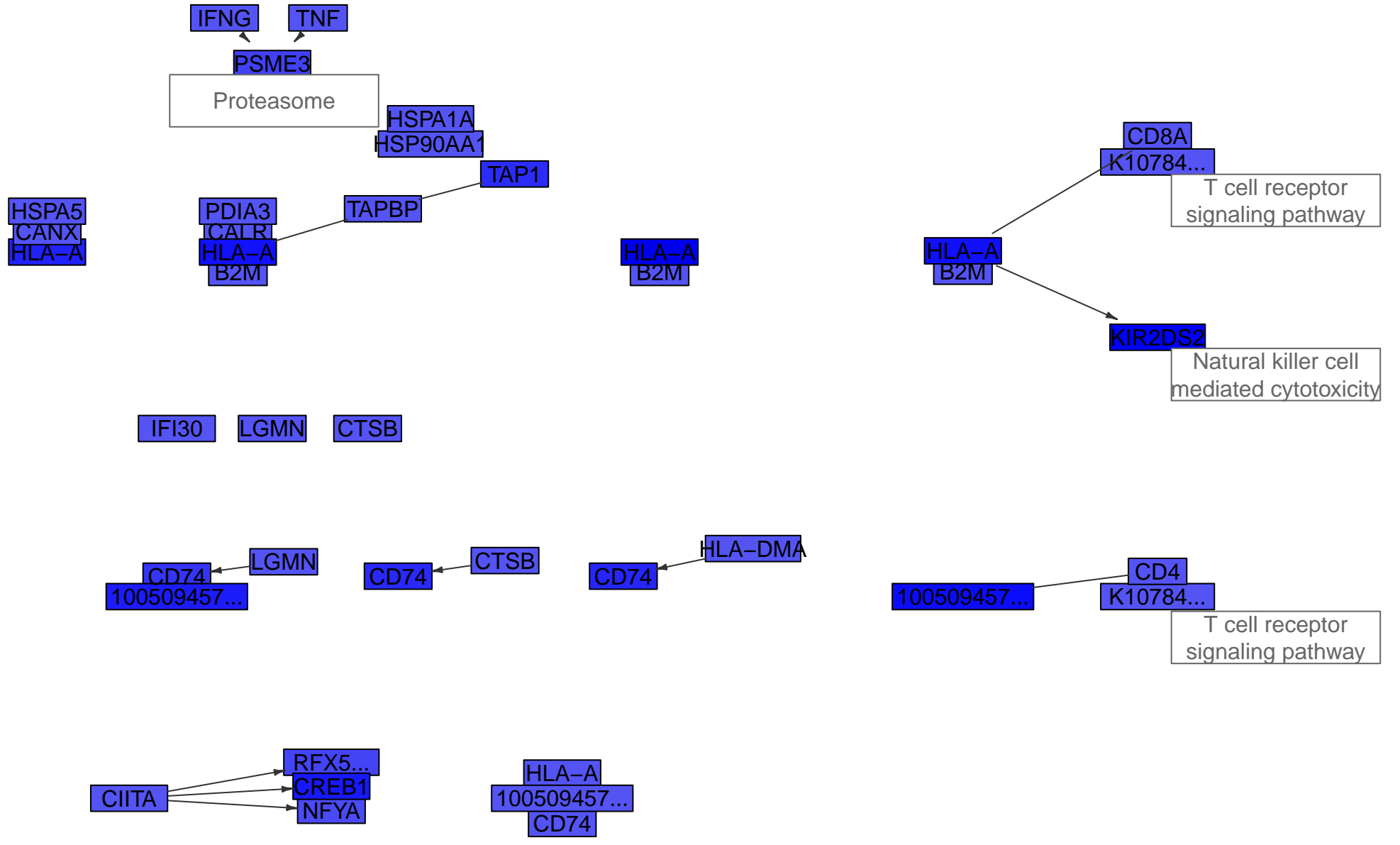
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MPI-145



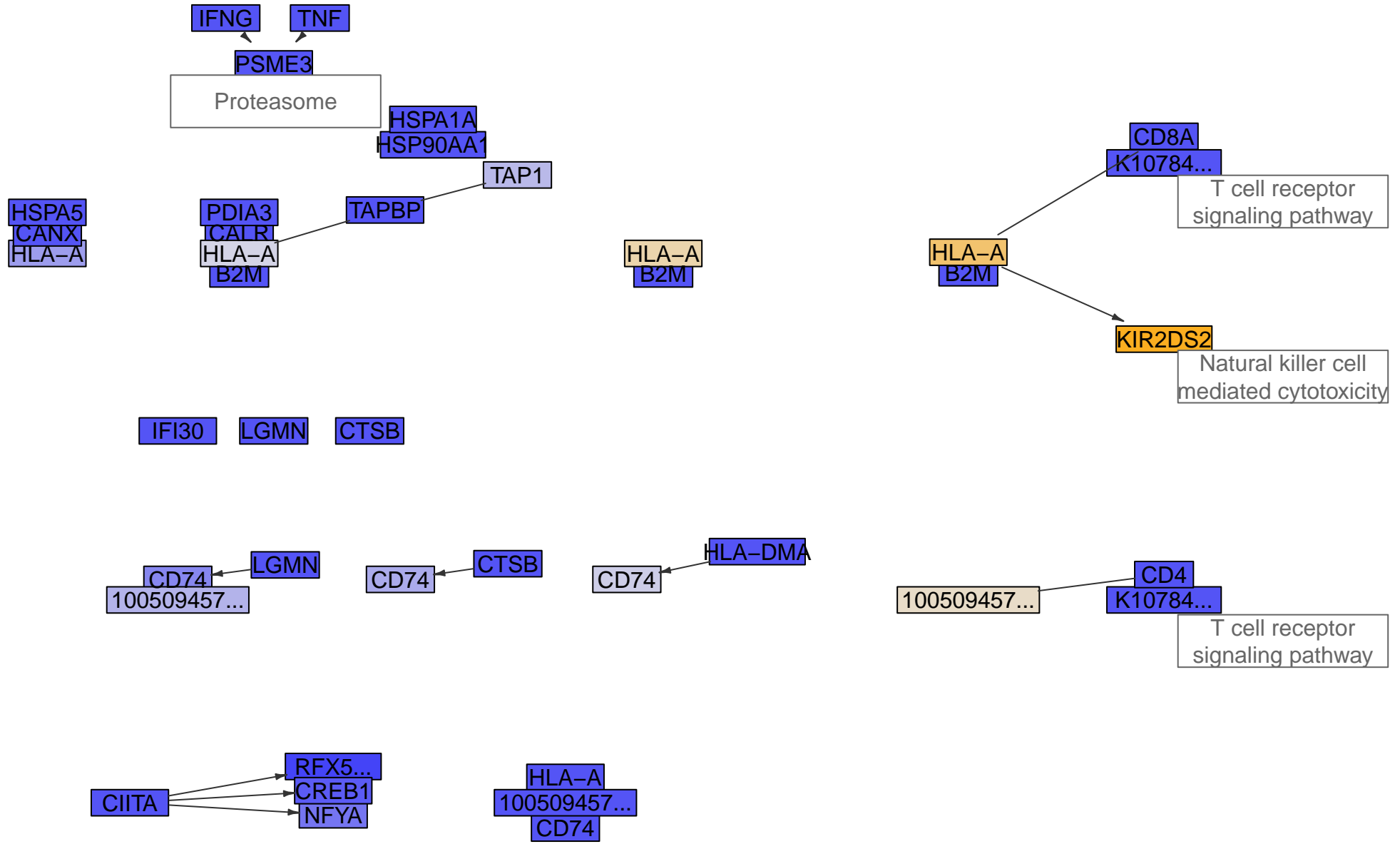
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MPI-146



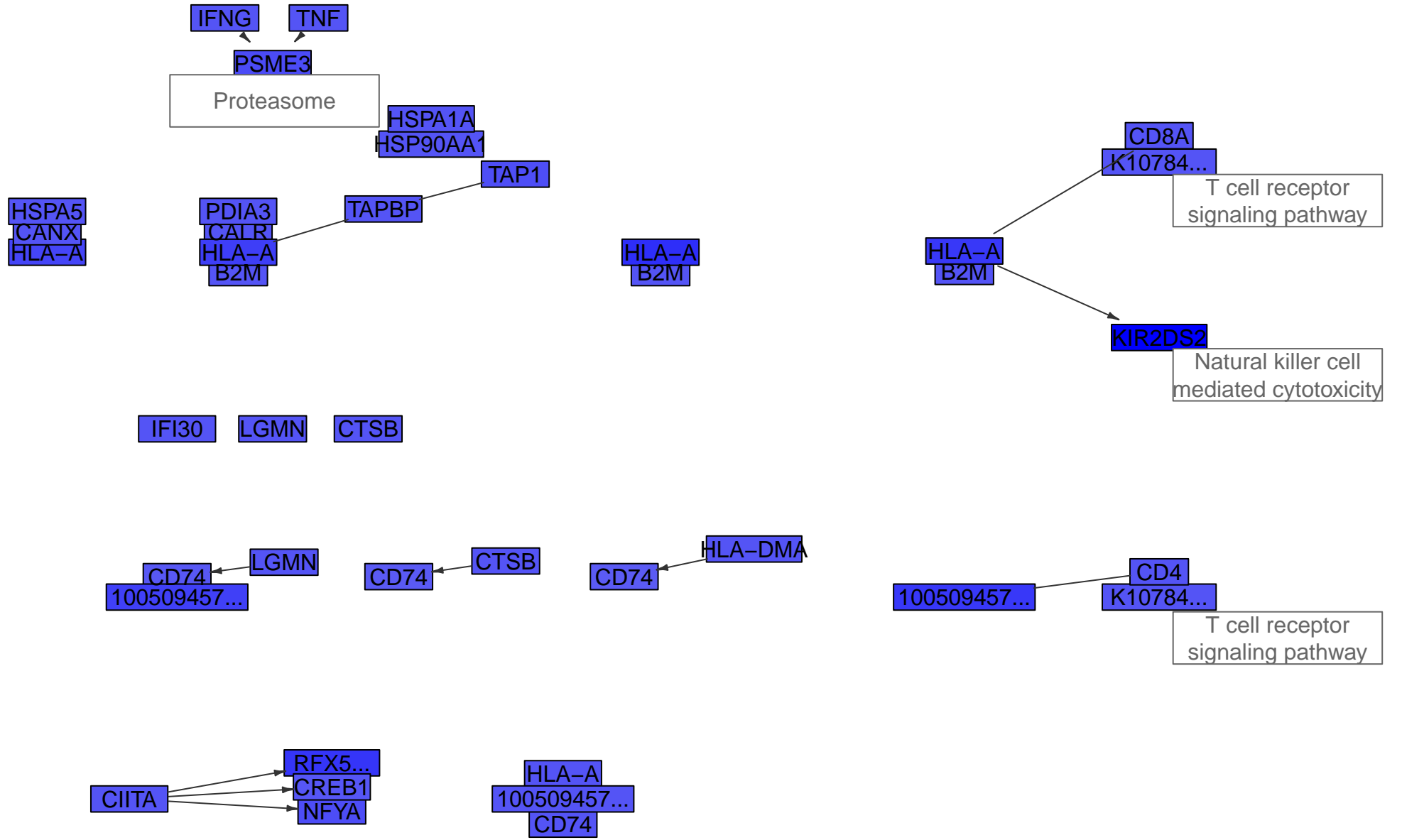
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MPI-149



Antigen processing and presentation  
MPI-150



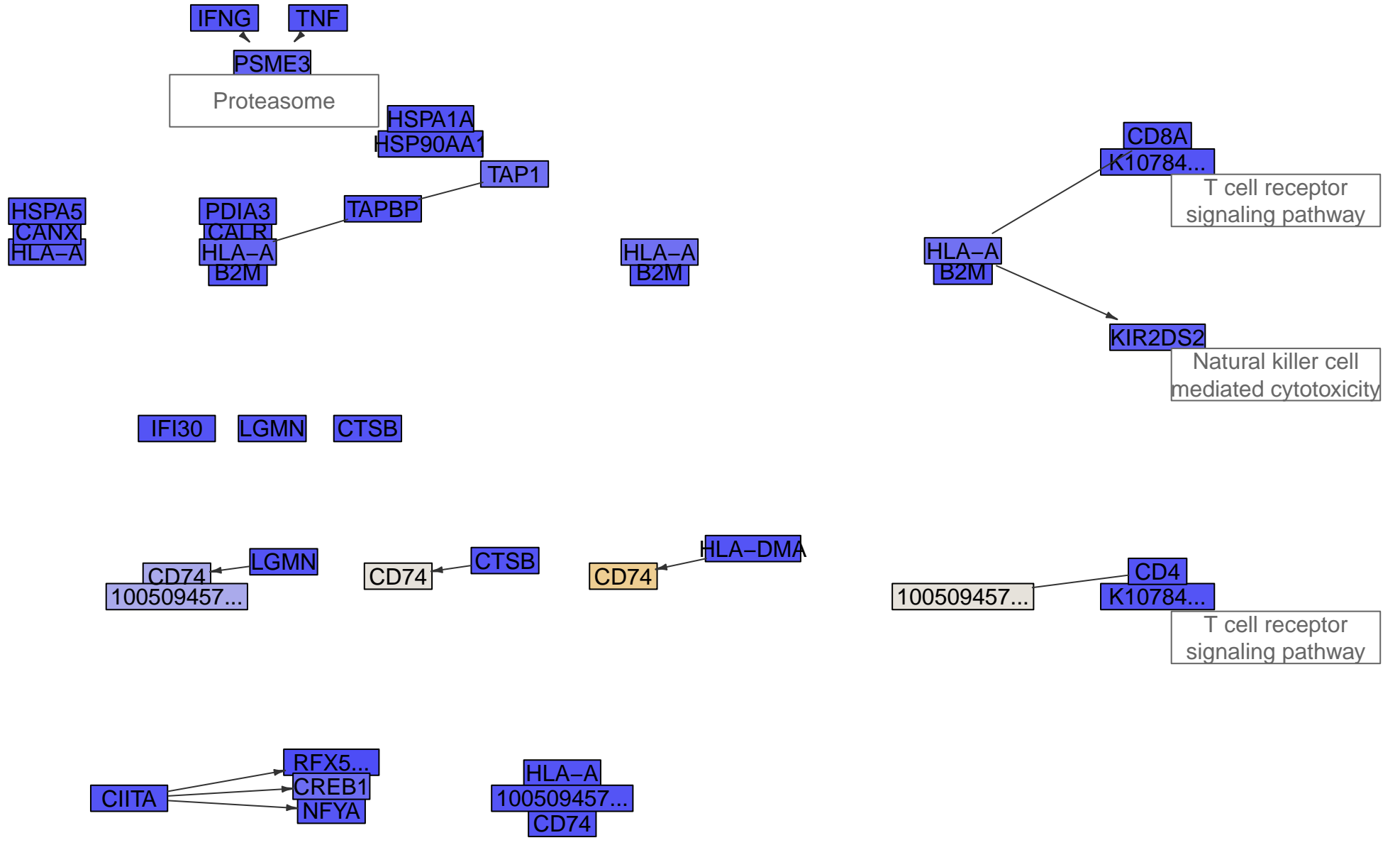
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MPI-151



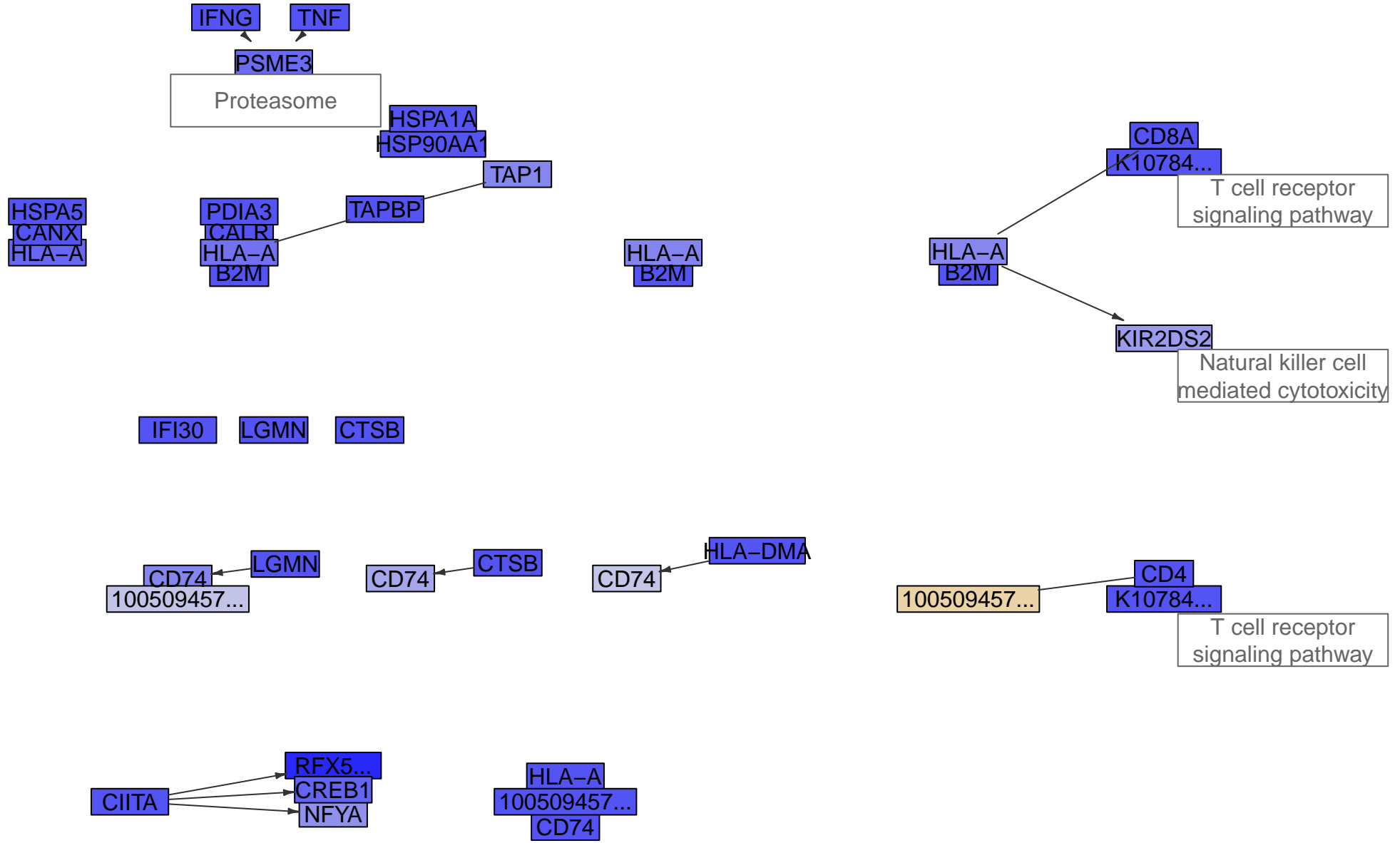




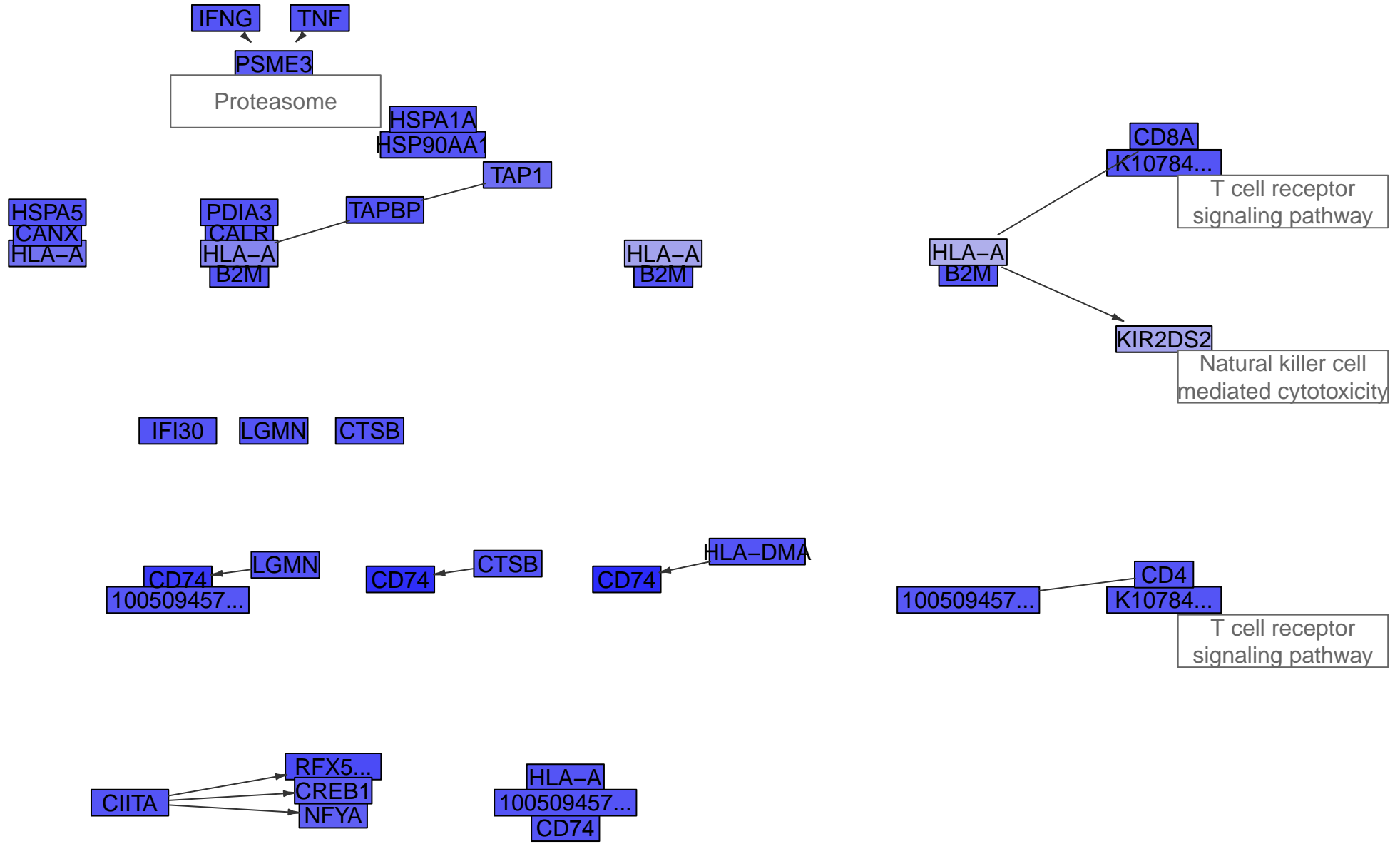
Antigen processing and presentation  
MPI-153



Antigen processing and presentation  
MPI-154

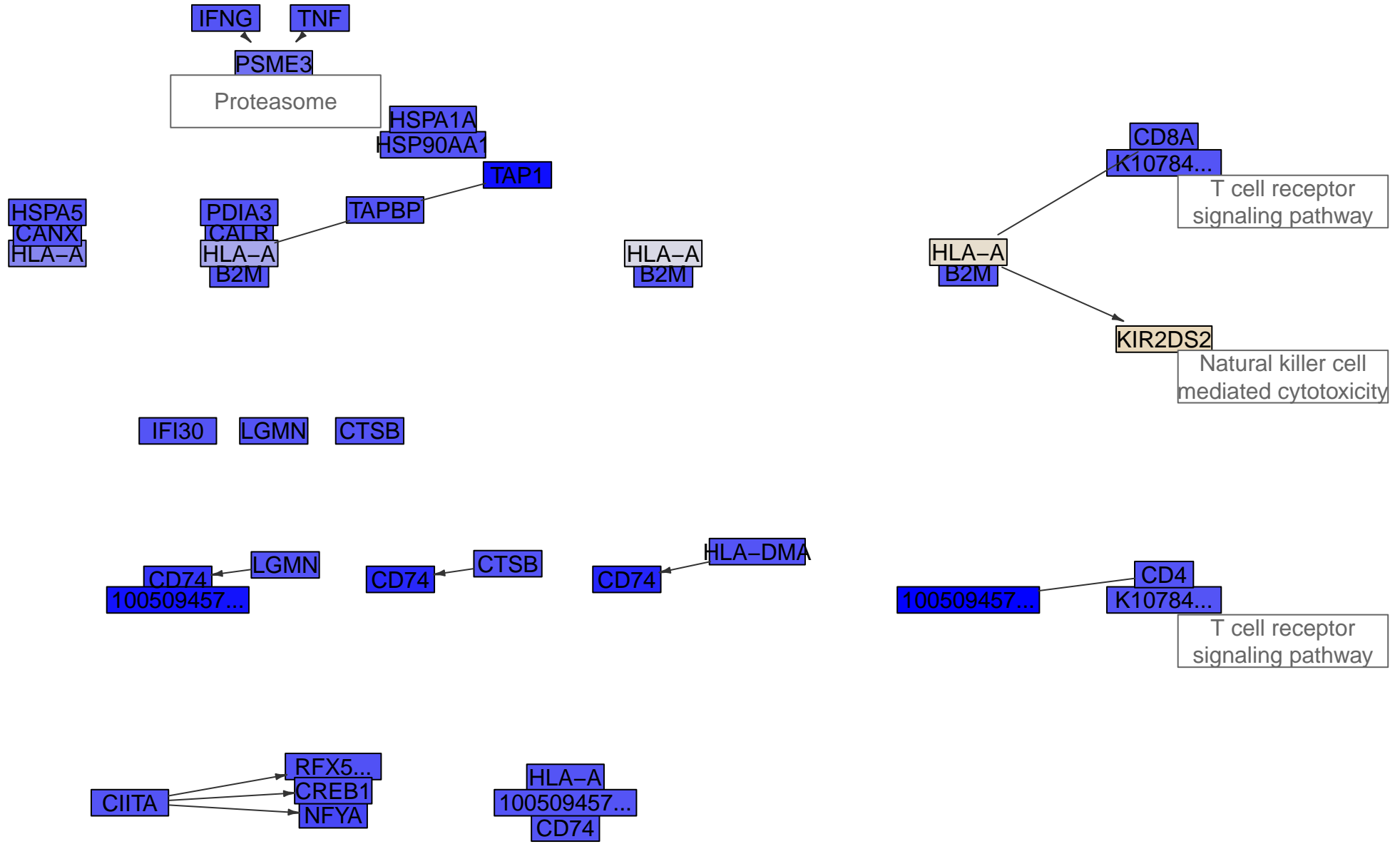


Antigen processing and presentation  
MPI-155

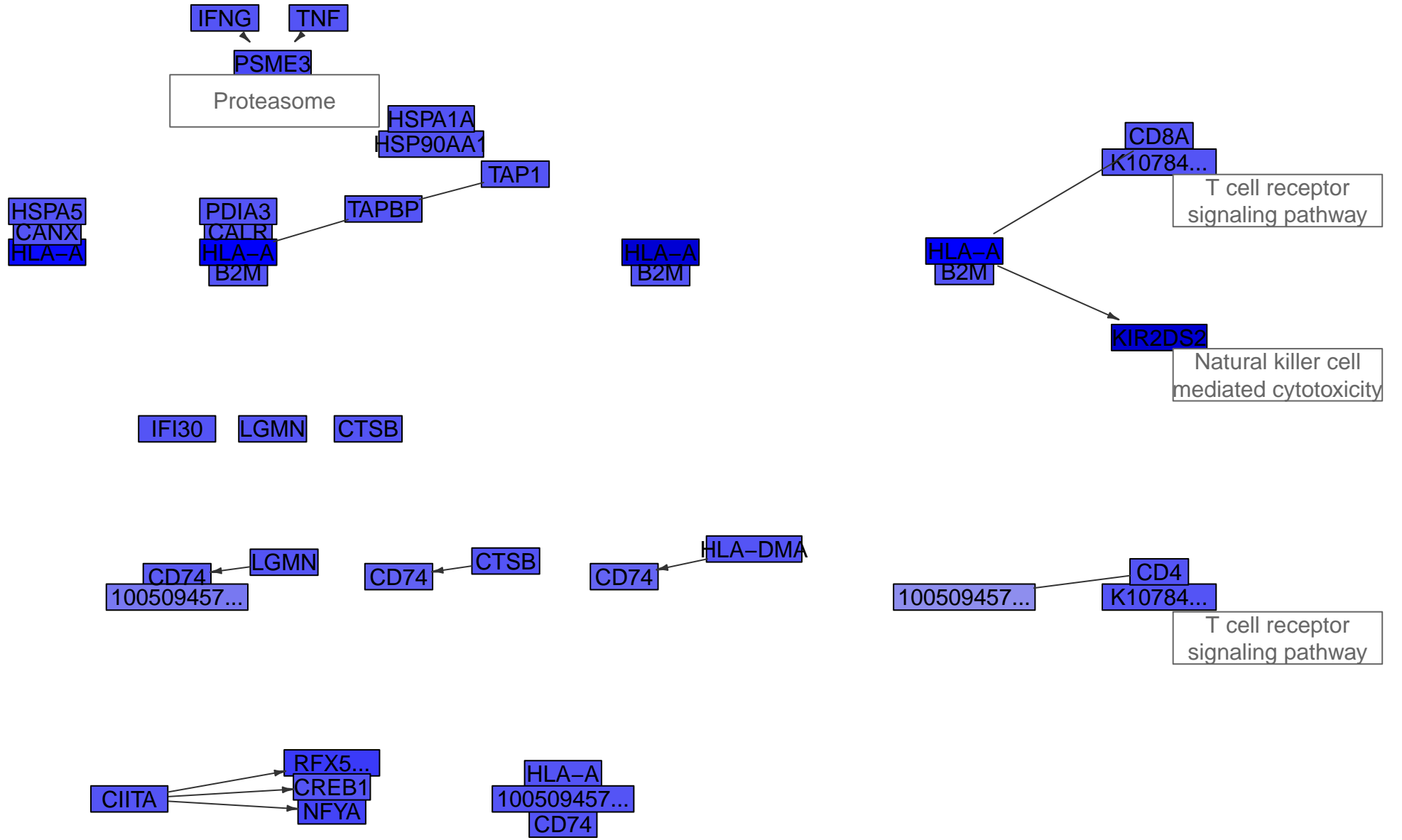




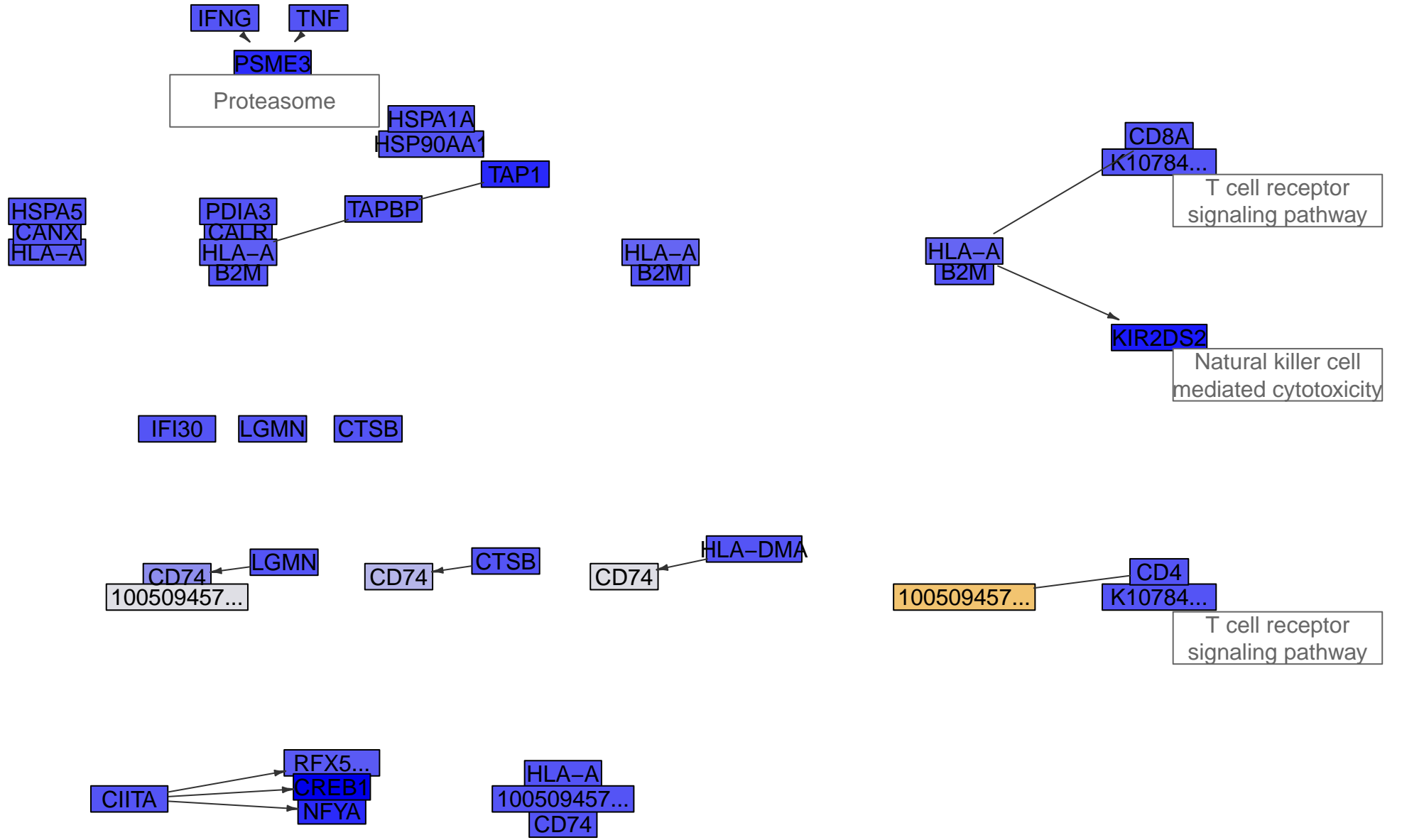
Antigen processing and presentation  
MPI-163



Antigen processing and presentation  
MPI-164

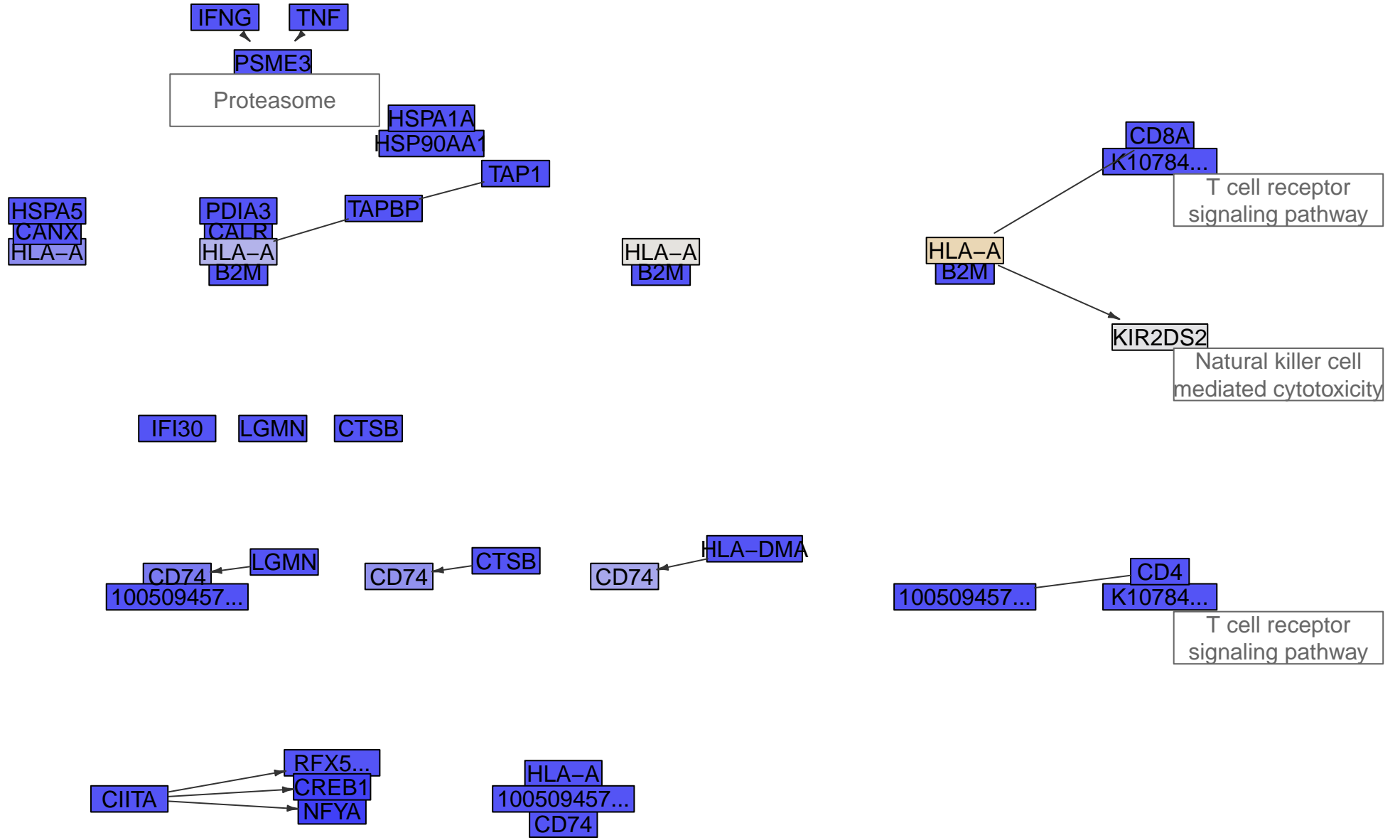


Antigen processing and presentation  
MPI-166

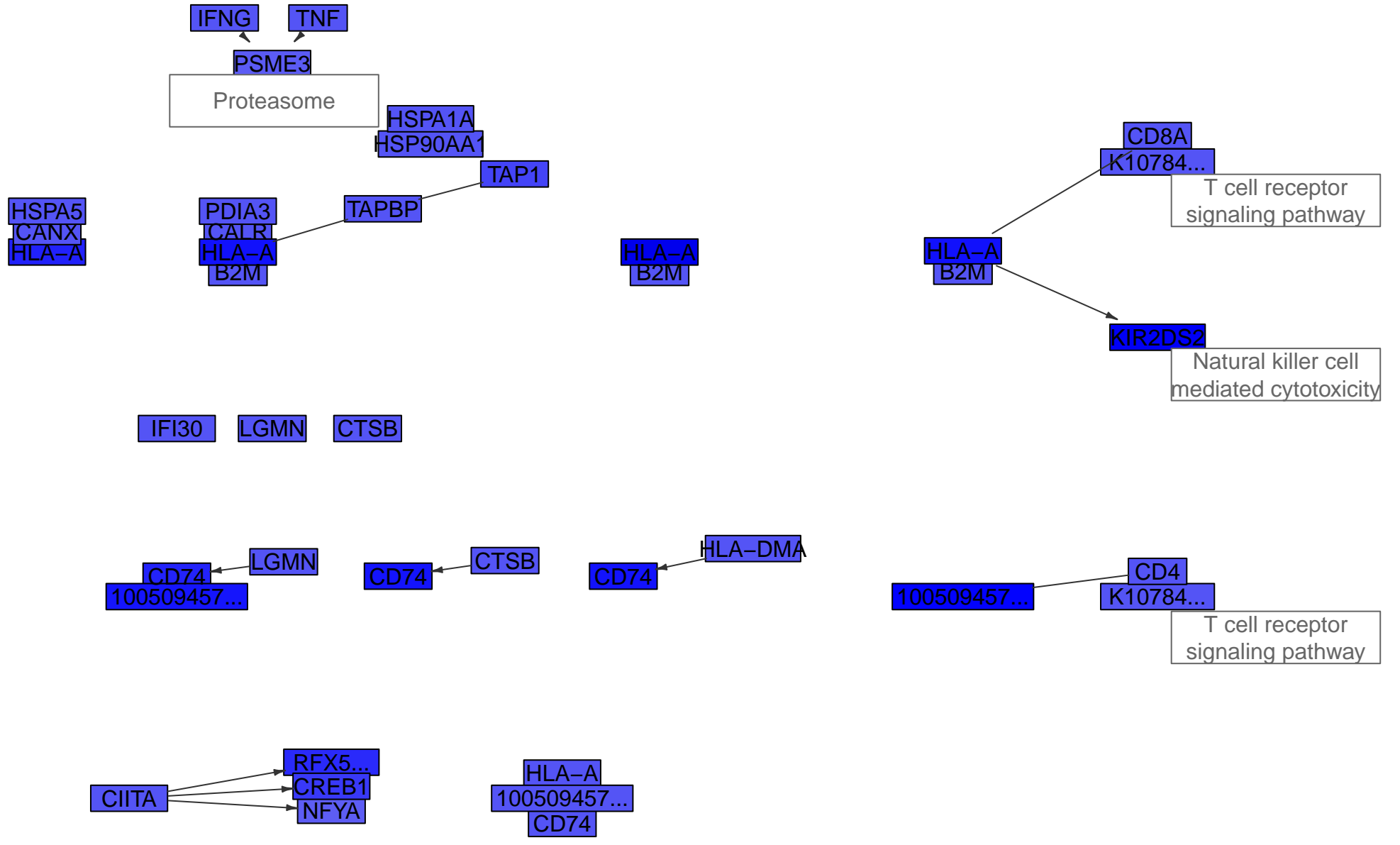




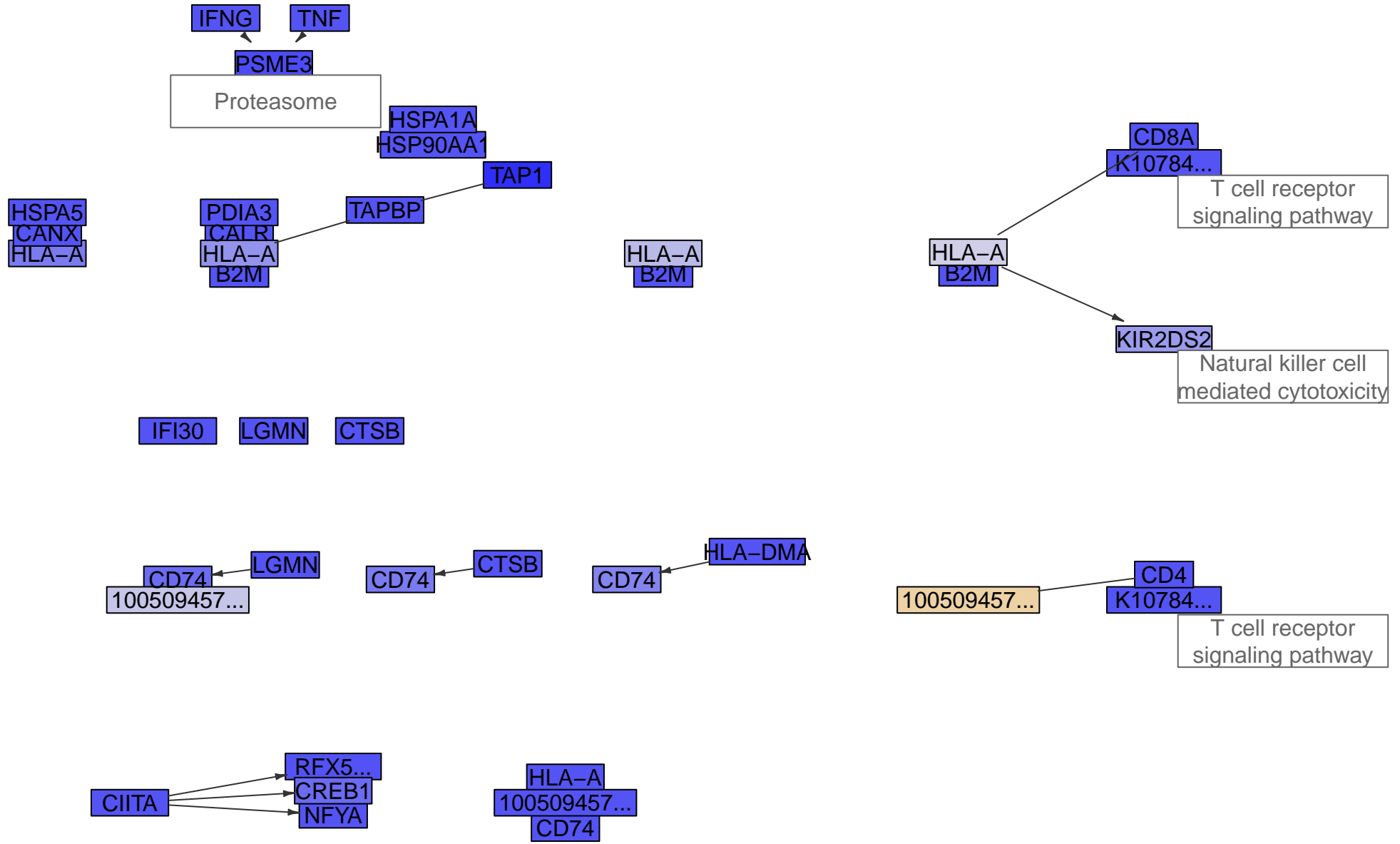
Antigen processing and presentation  
MPI-167



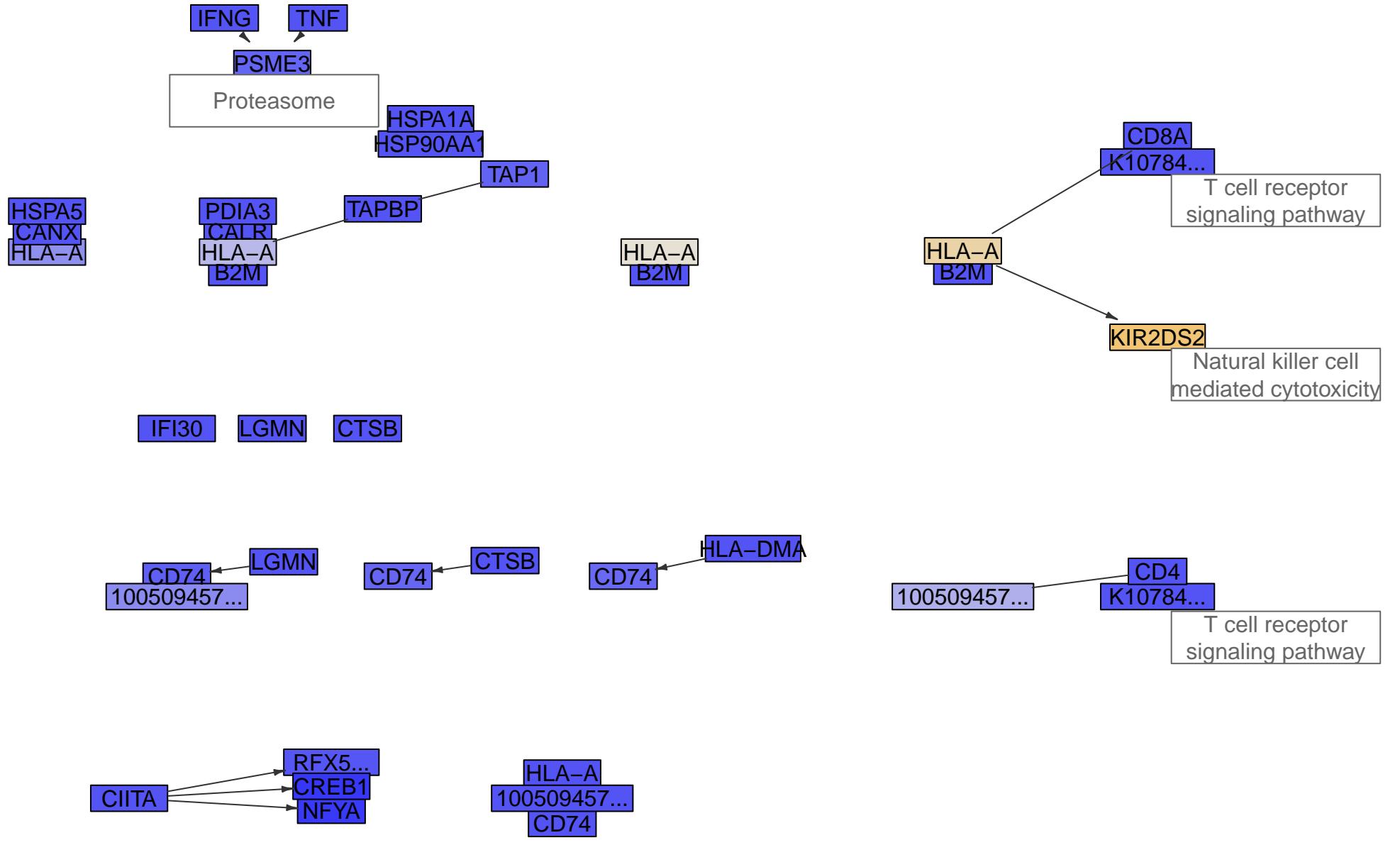
Antigen processing and presentation  
MPI-168



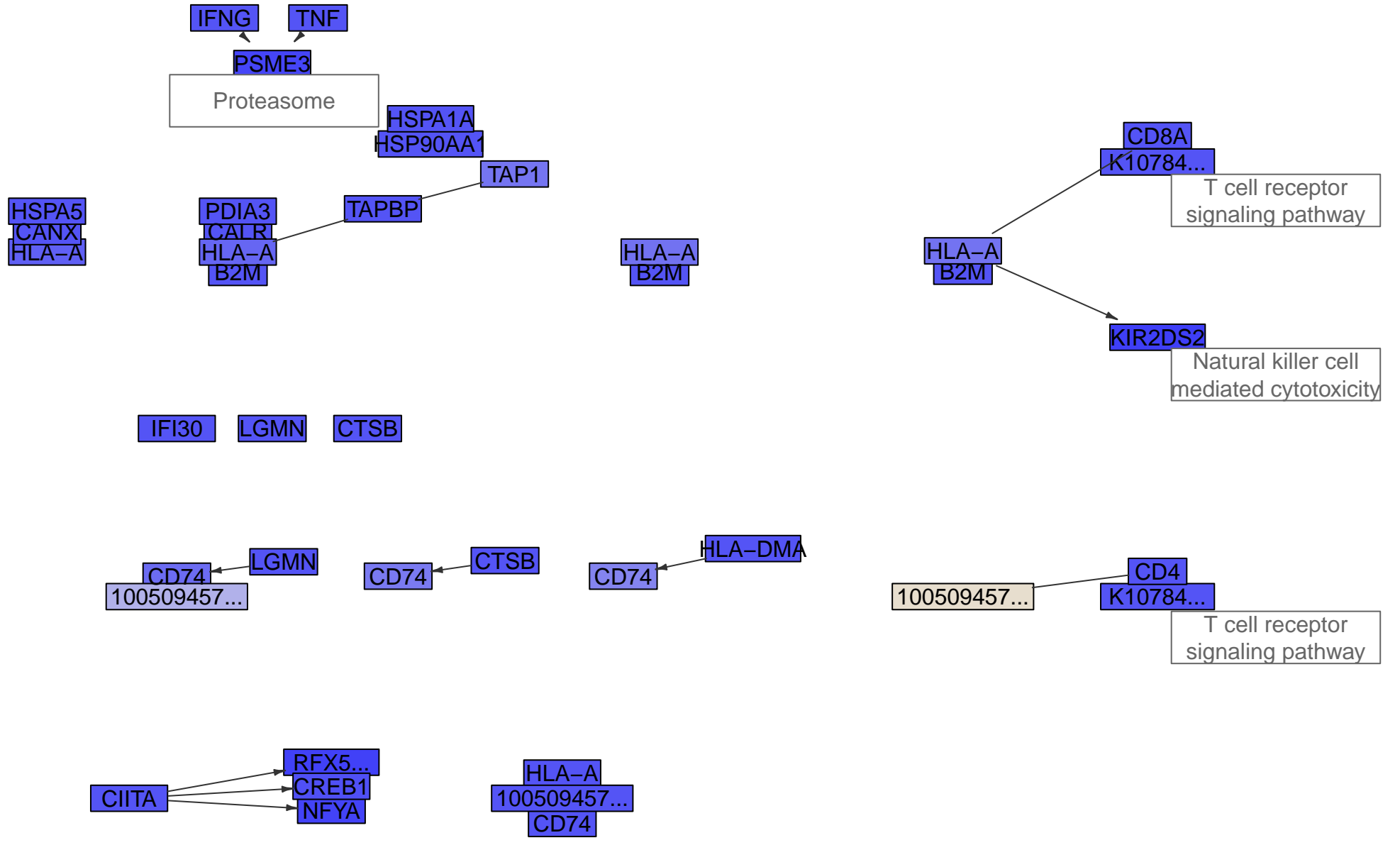
Antigen processing and presentation  
MPI-170



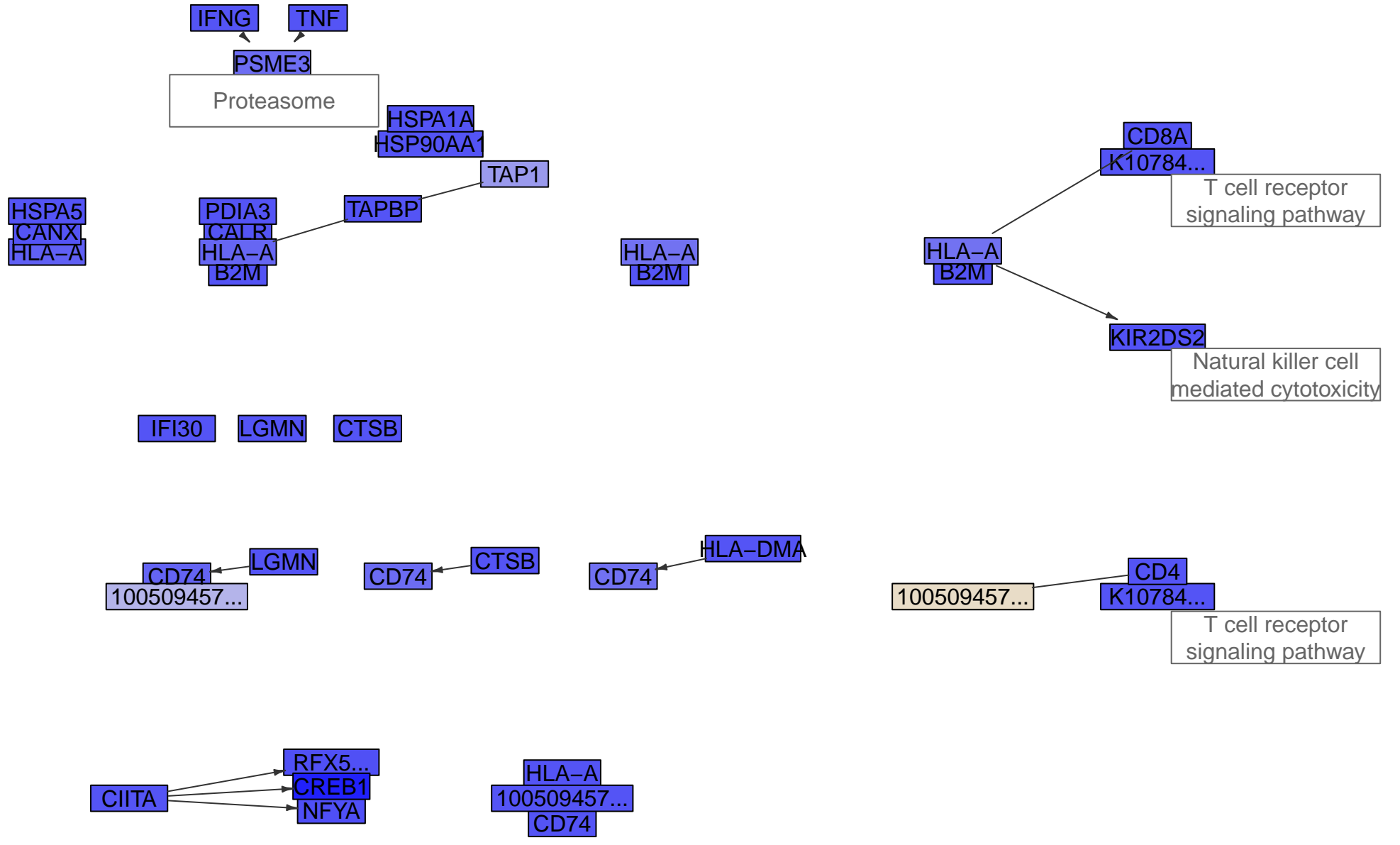
Antigen processing and presentation  
MPI-173



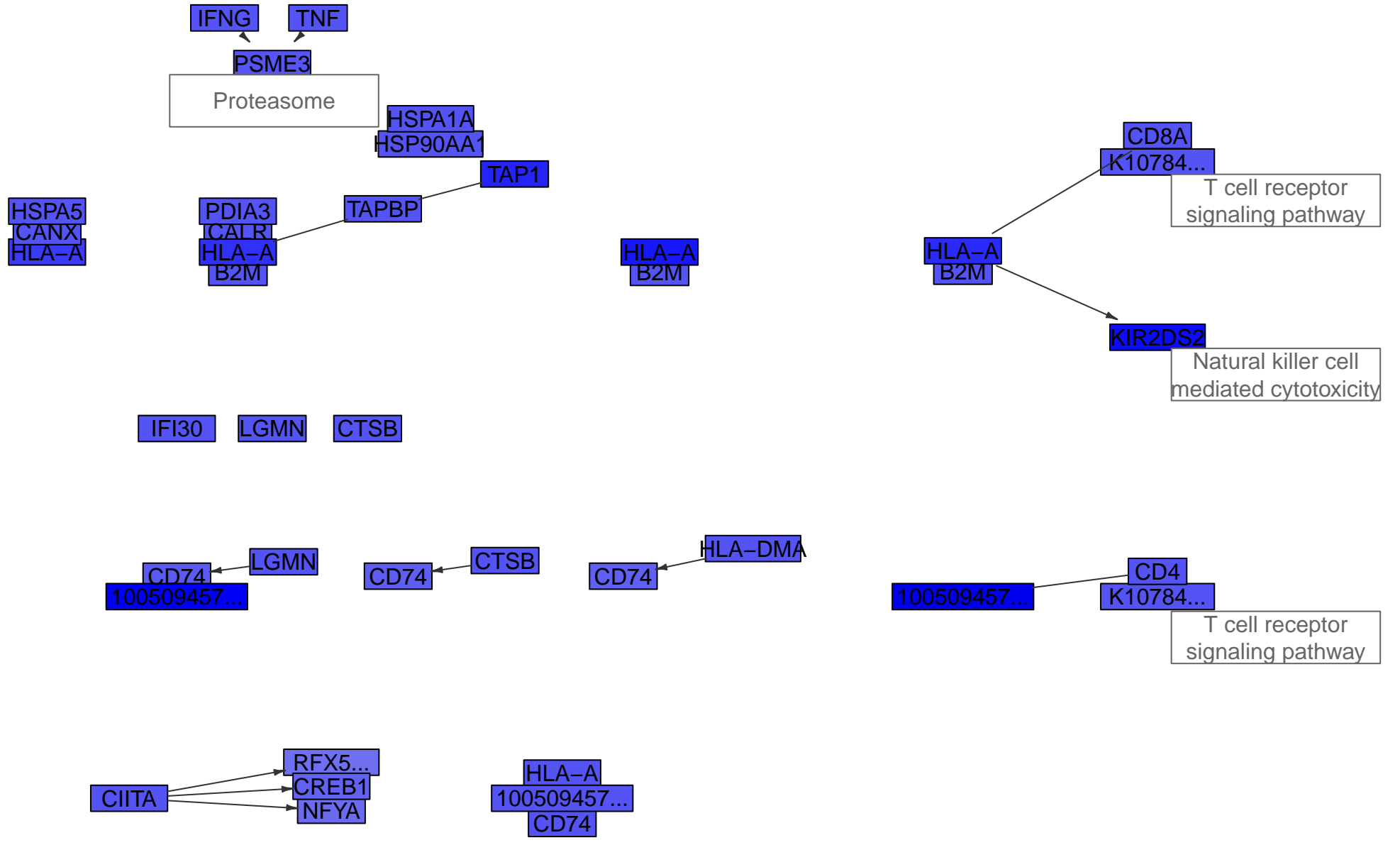
Antigen processing and presentation  
MPI-174



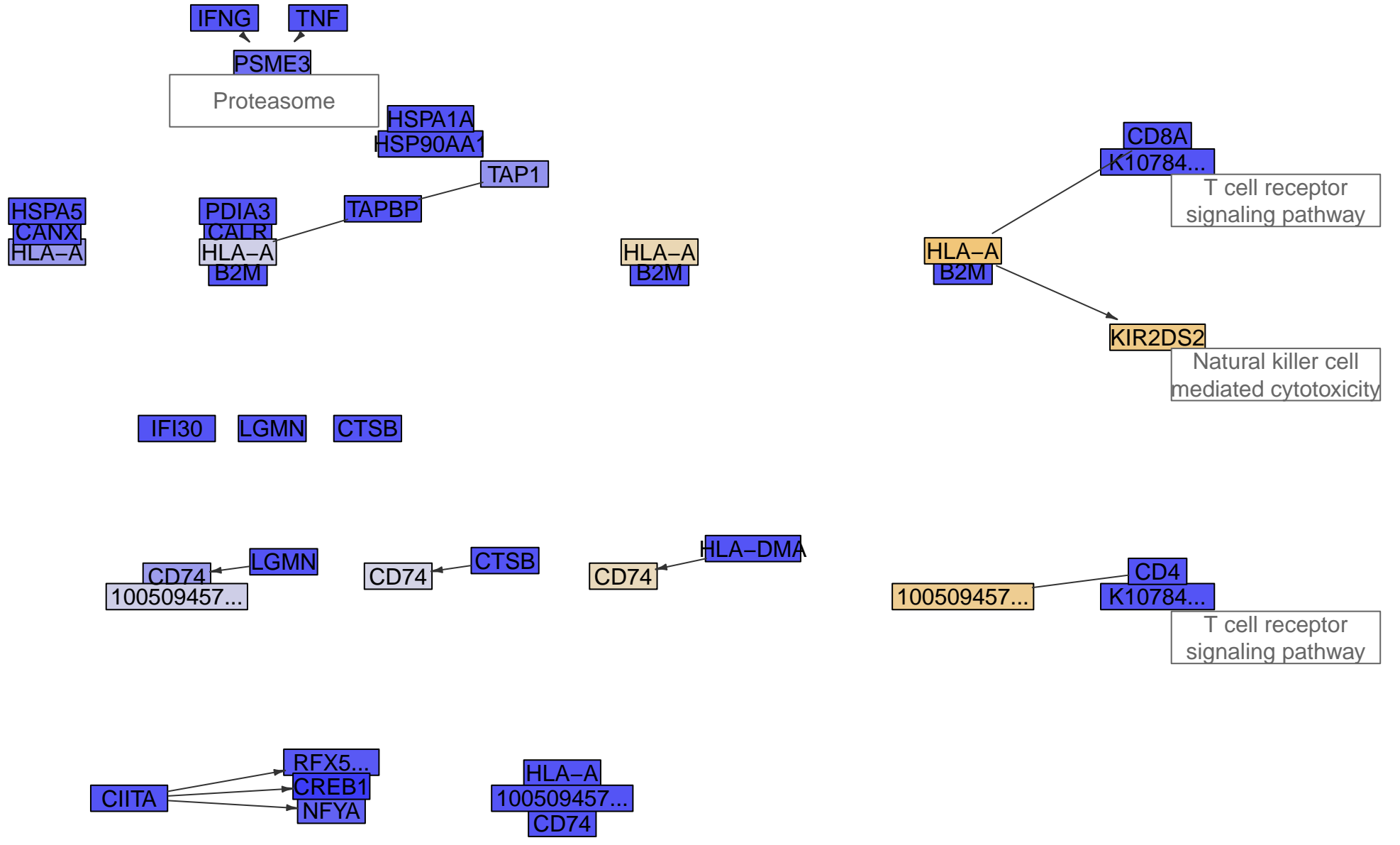
Antigen processing and presentation  
MPI-176



Antigen processing and presentation  
MPI-177

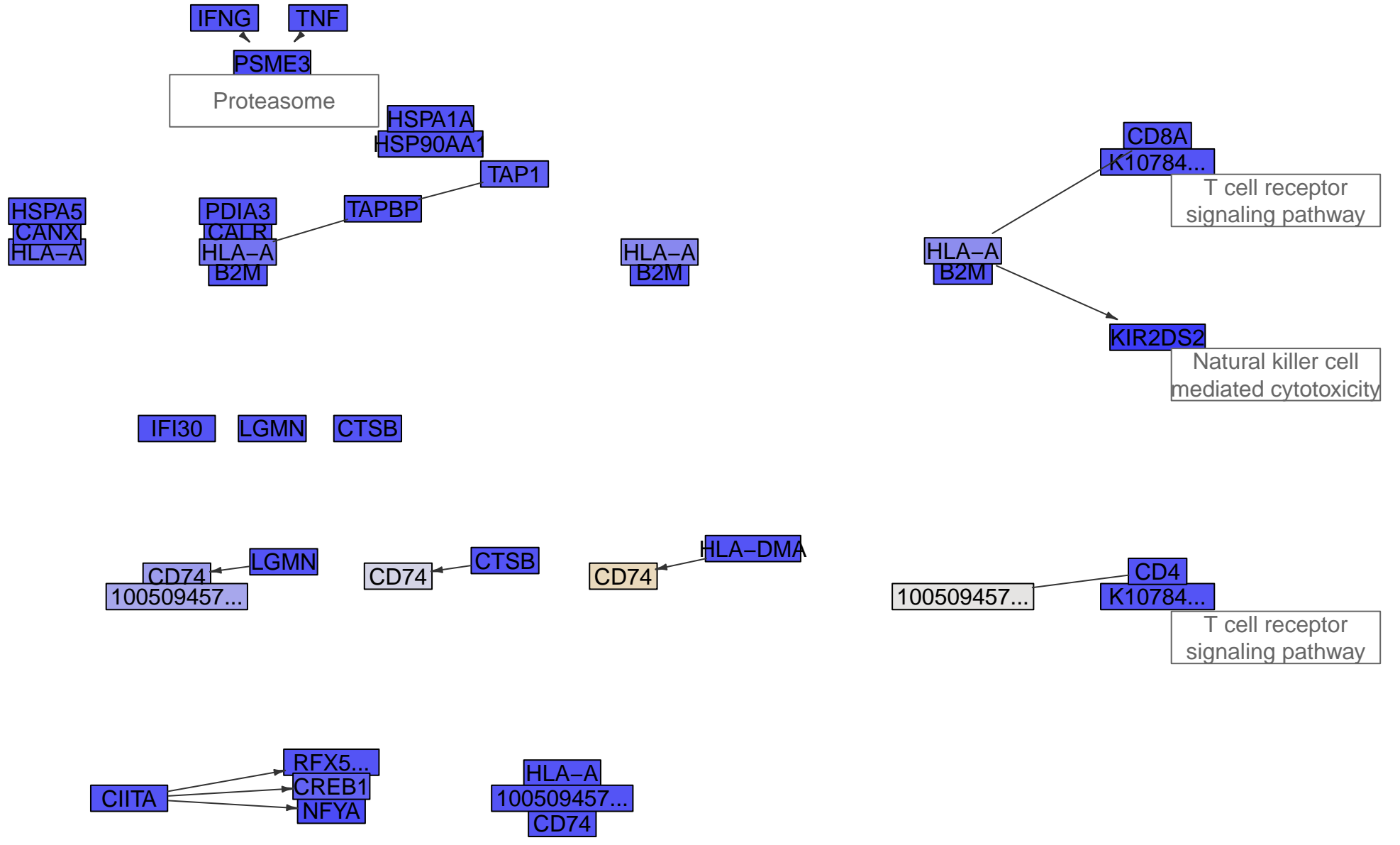


Antigen processing and presentation  
MPI-178

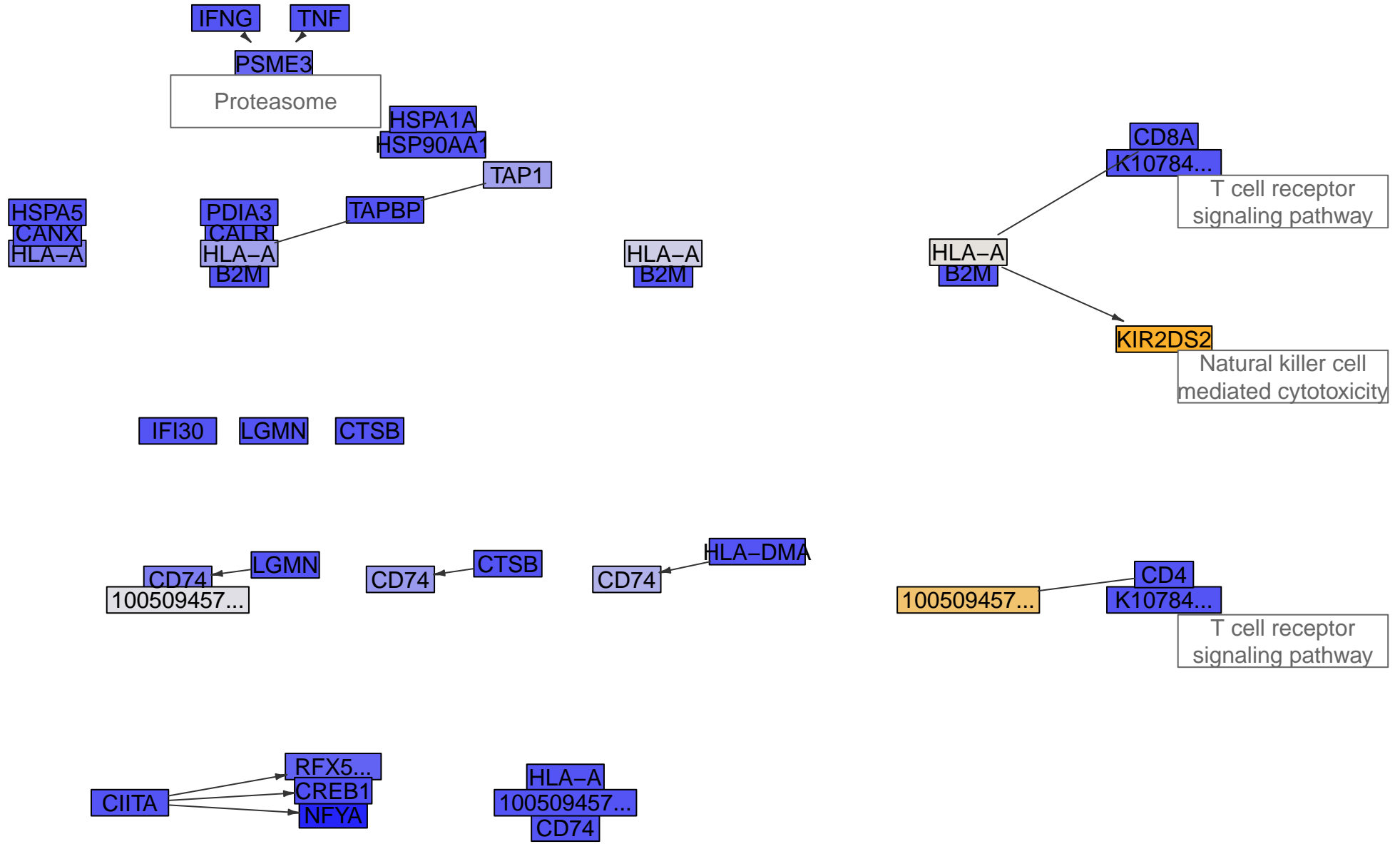




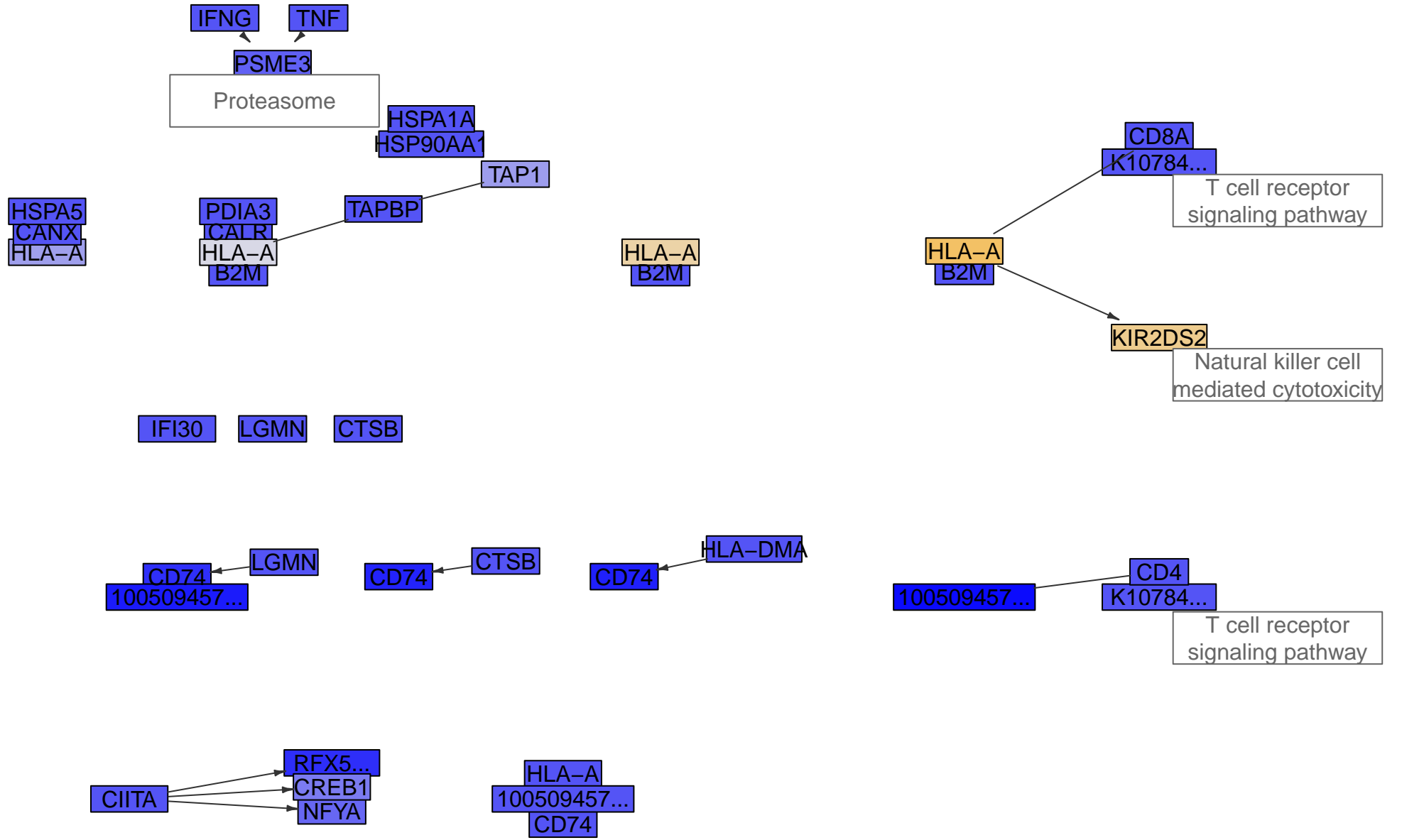
Antigen processing and presentation  
MPI-179



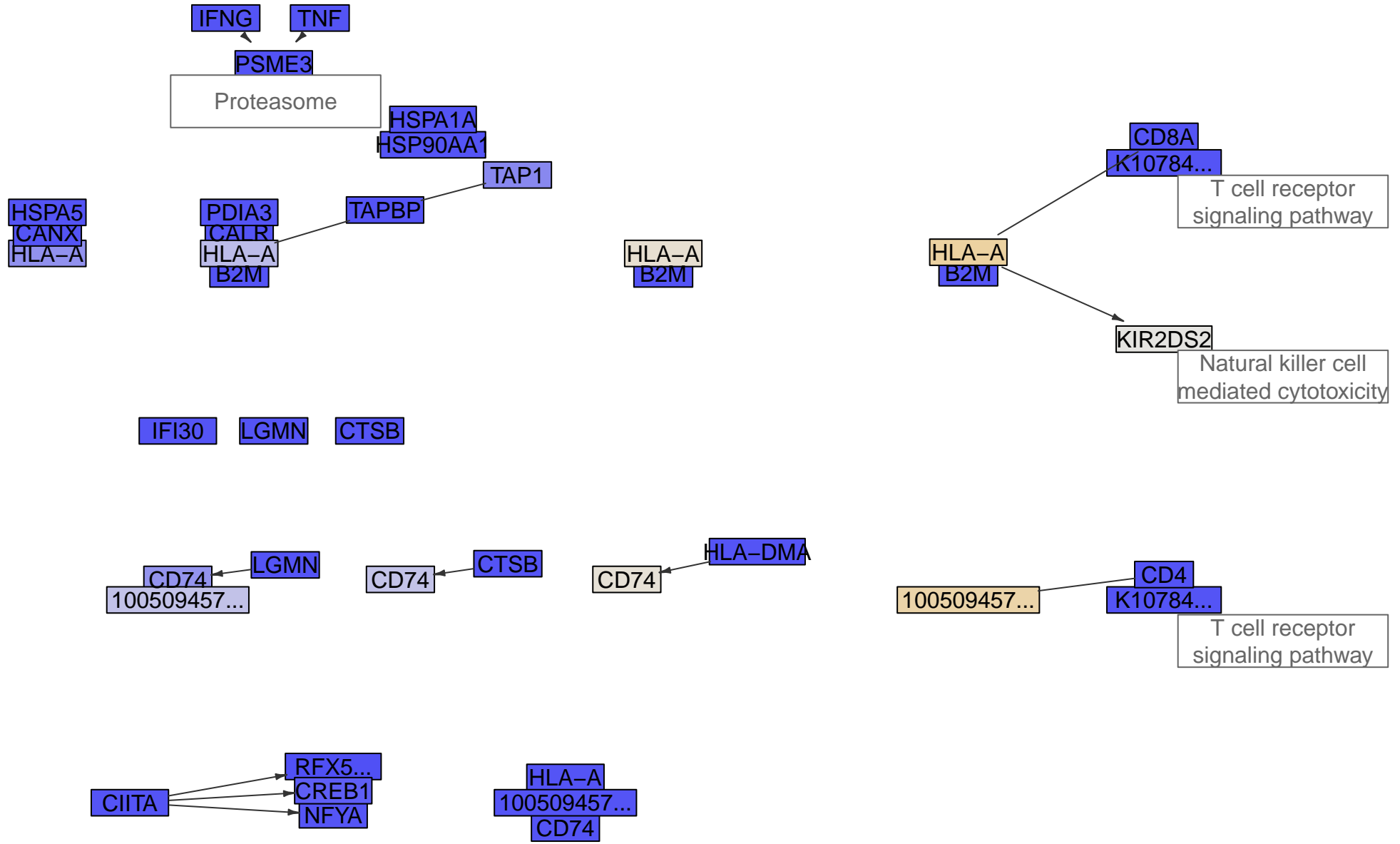
Antigen processing and presentation  
MPI-180



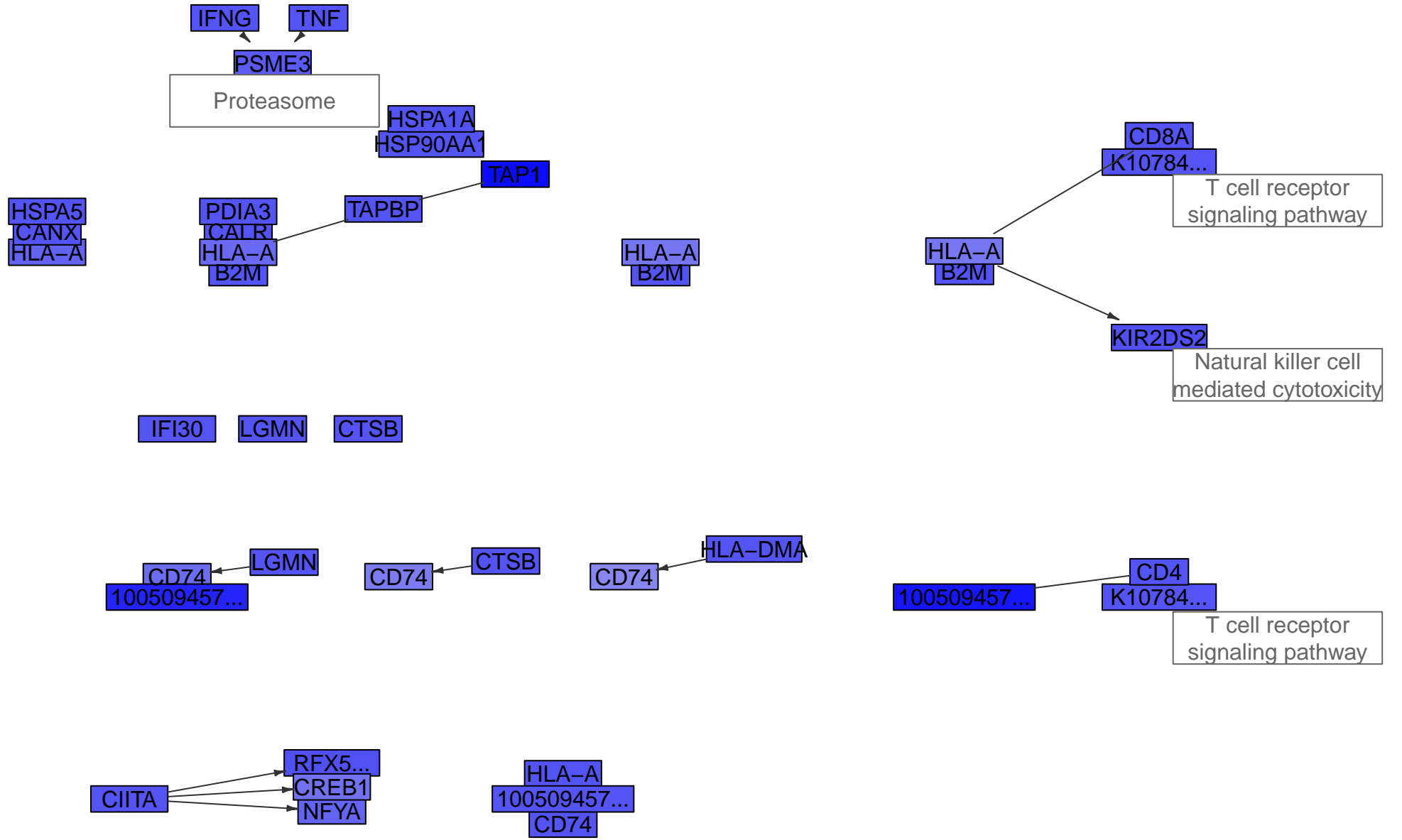
Antigen processing and presentation  
MPI-182



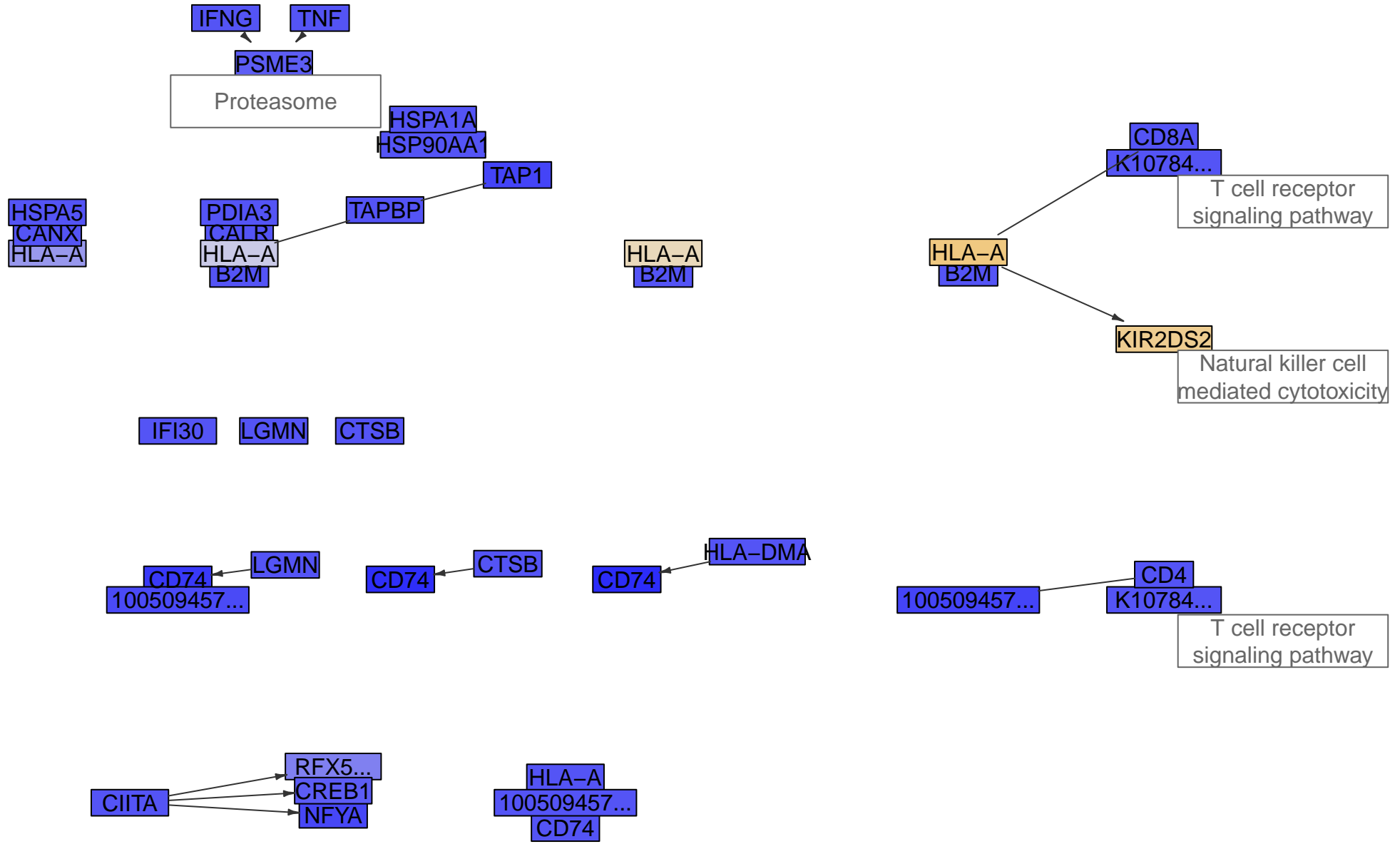
Antigen processing and presentation  
MPI-183



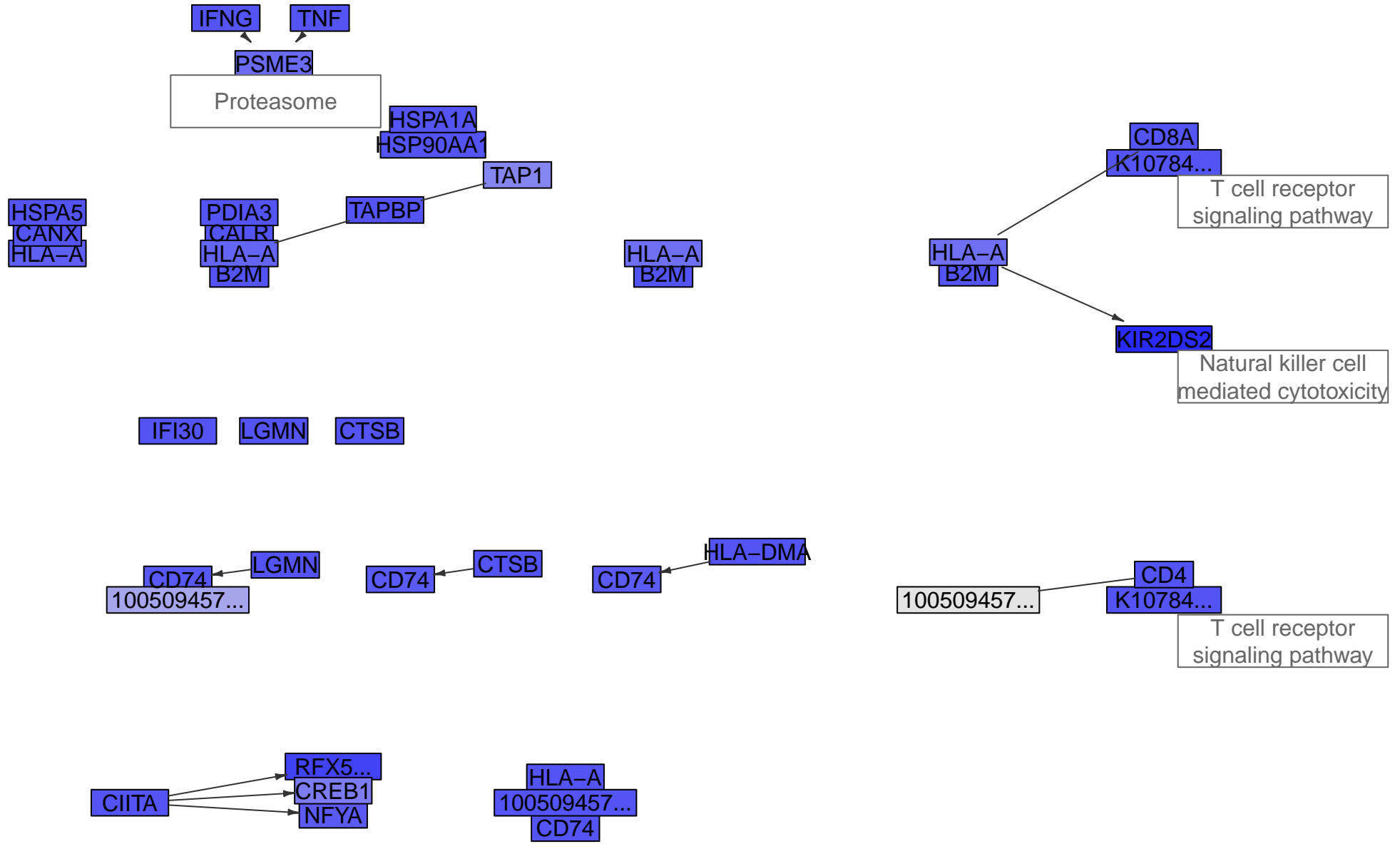
Antigen processing and presentation  
MPI-184



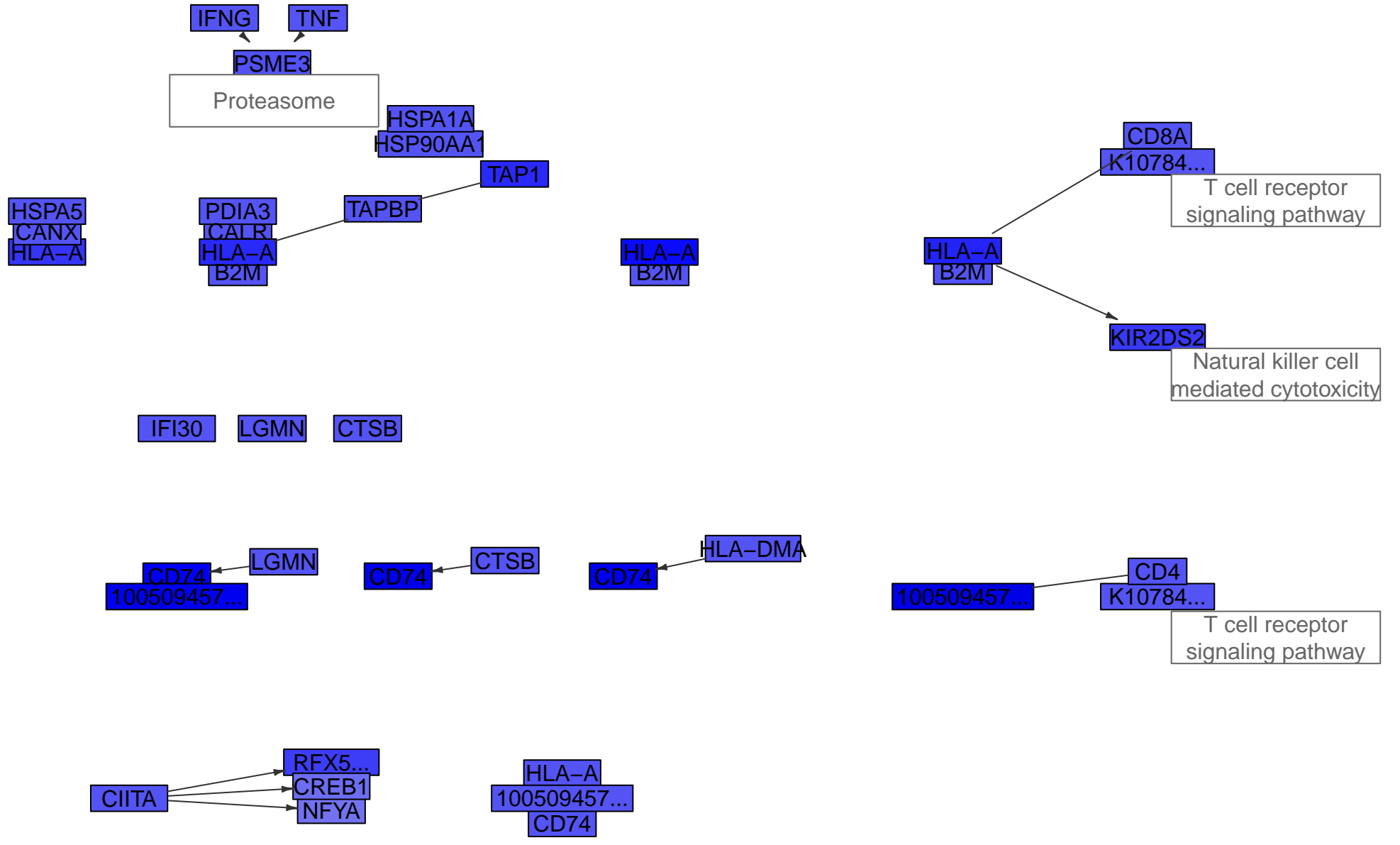
Antigen processing and presentation  
MPI-185



Antigen processing and presentation  
MPI-186

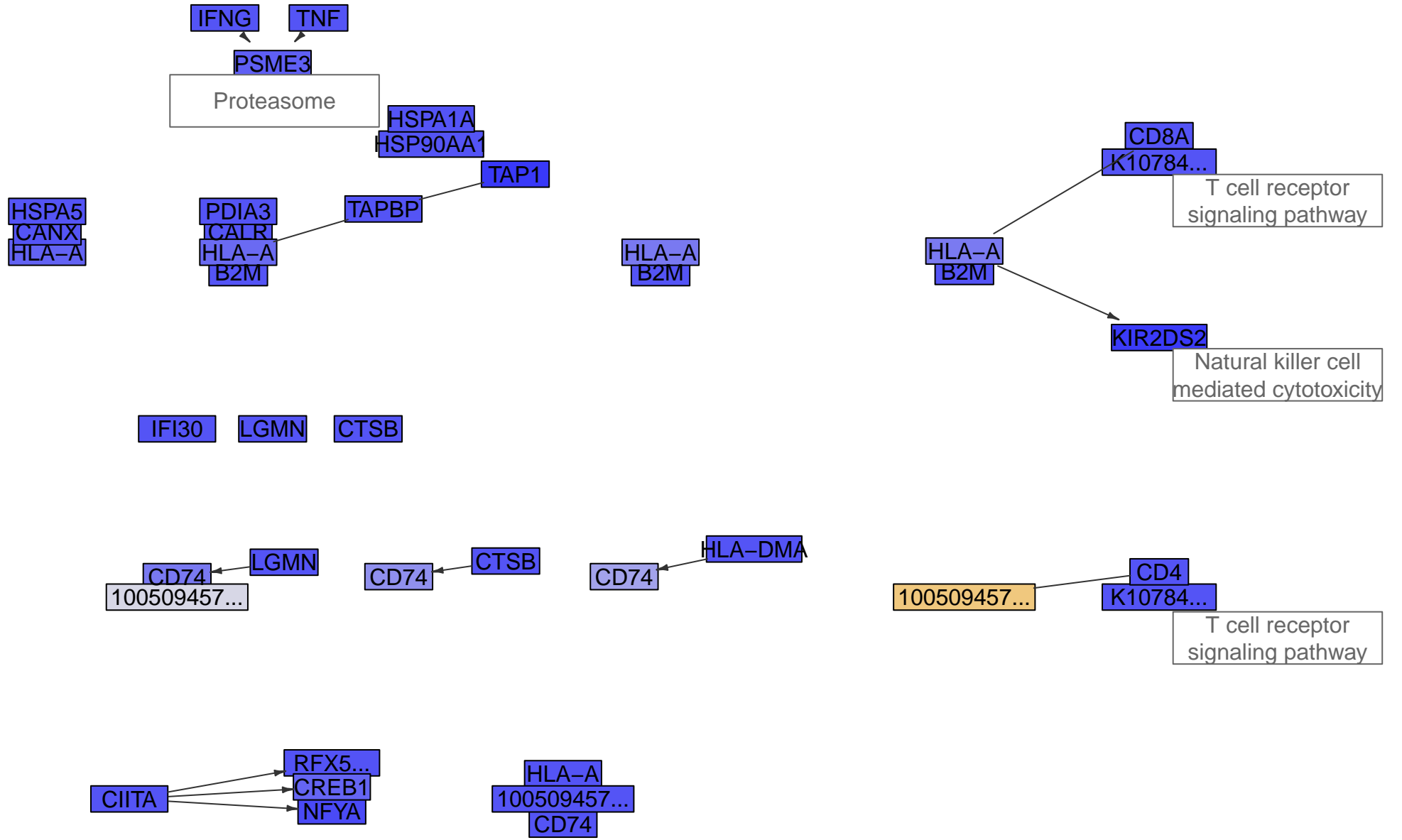


Antigen processing and presentation  
MPI-188

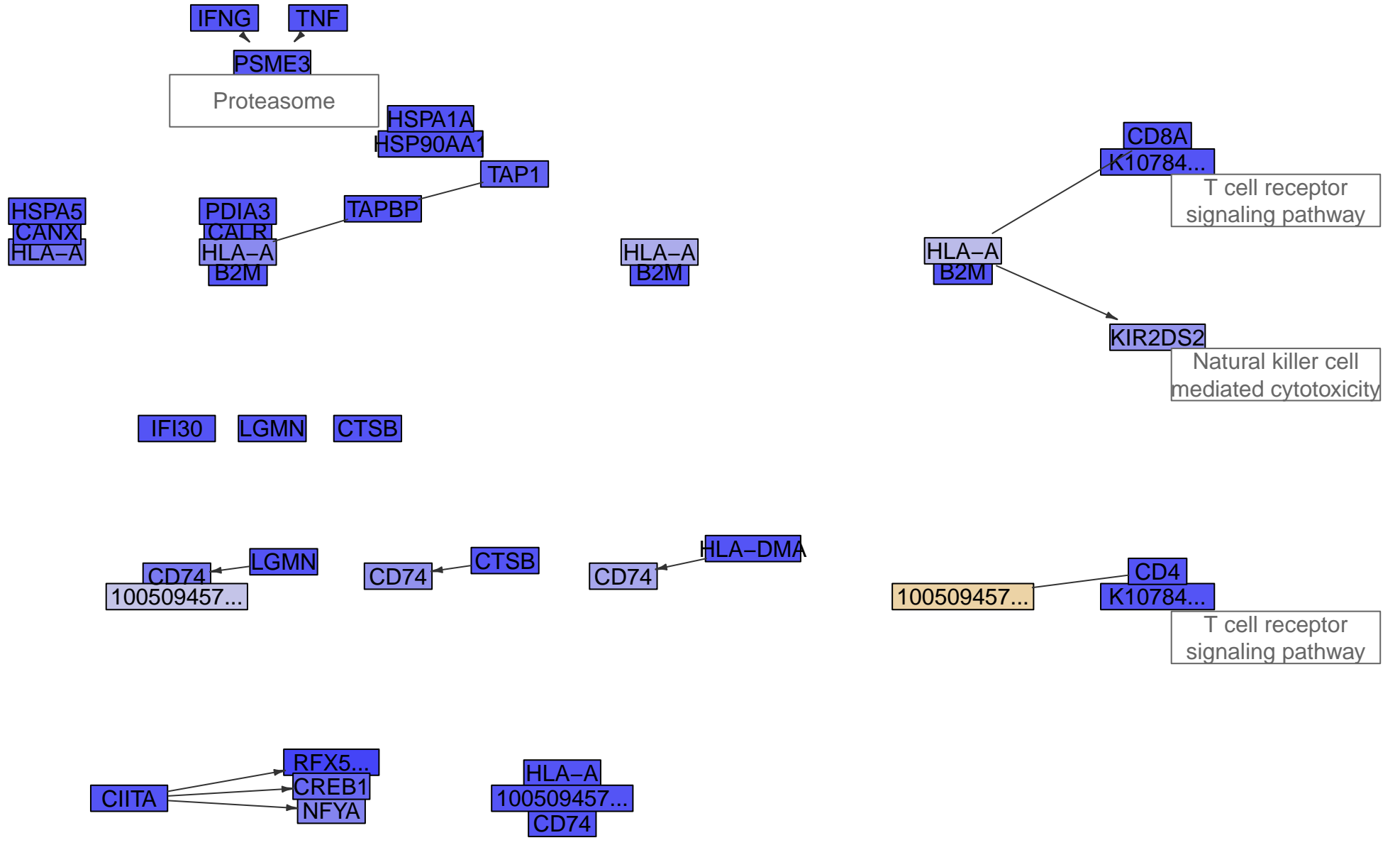




Antigen processing and presentation  
MPI-189



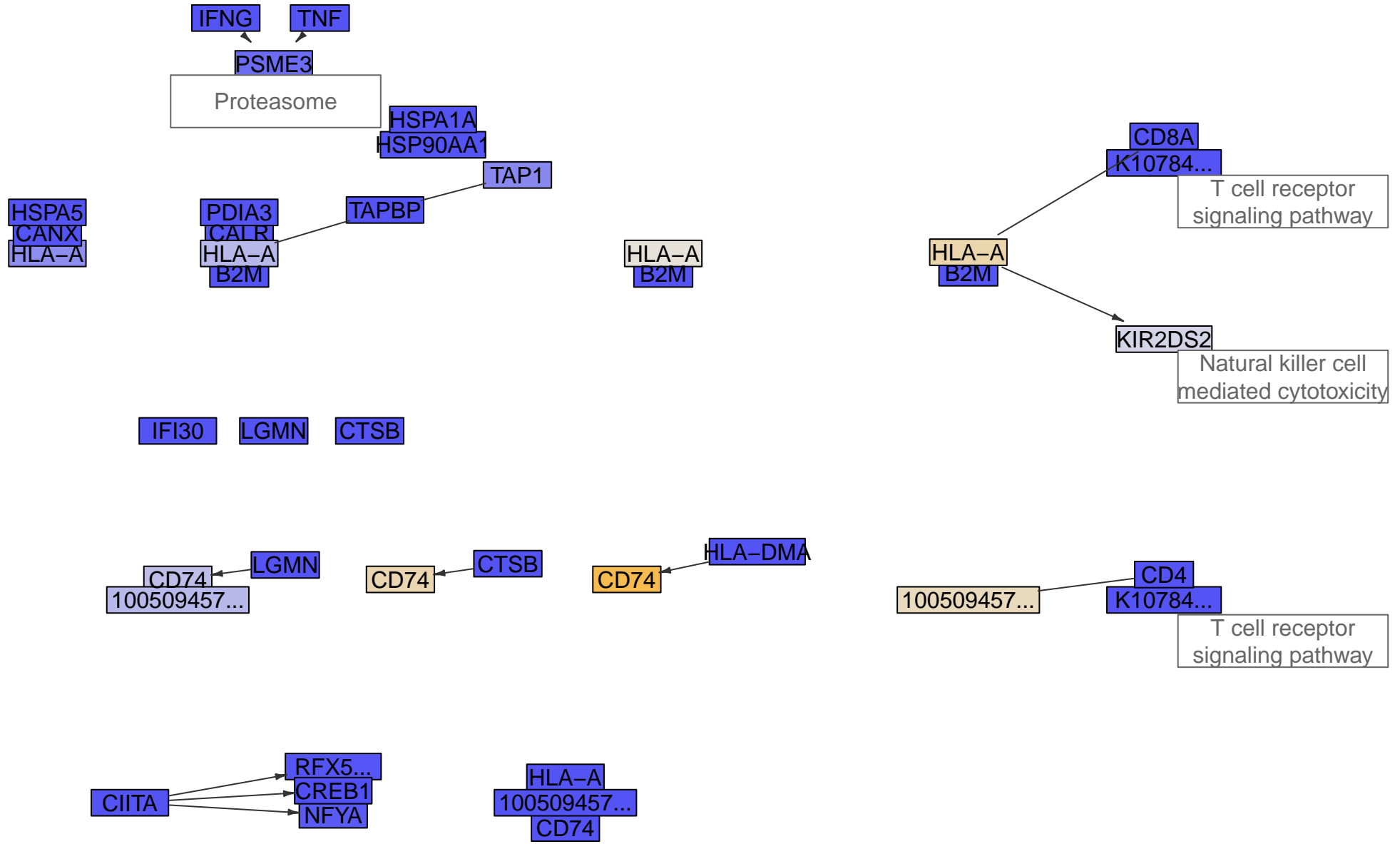
Antigen processing and presentation  
MPI-190



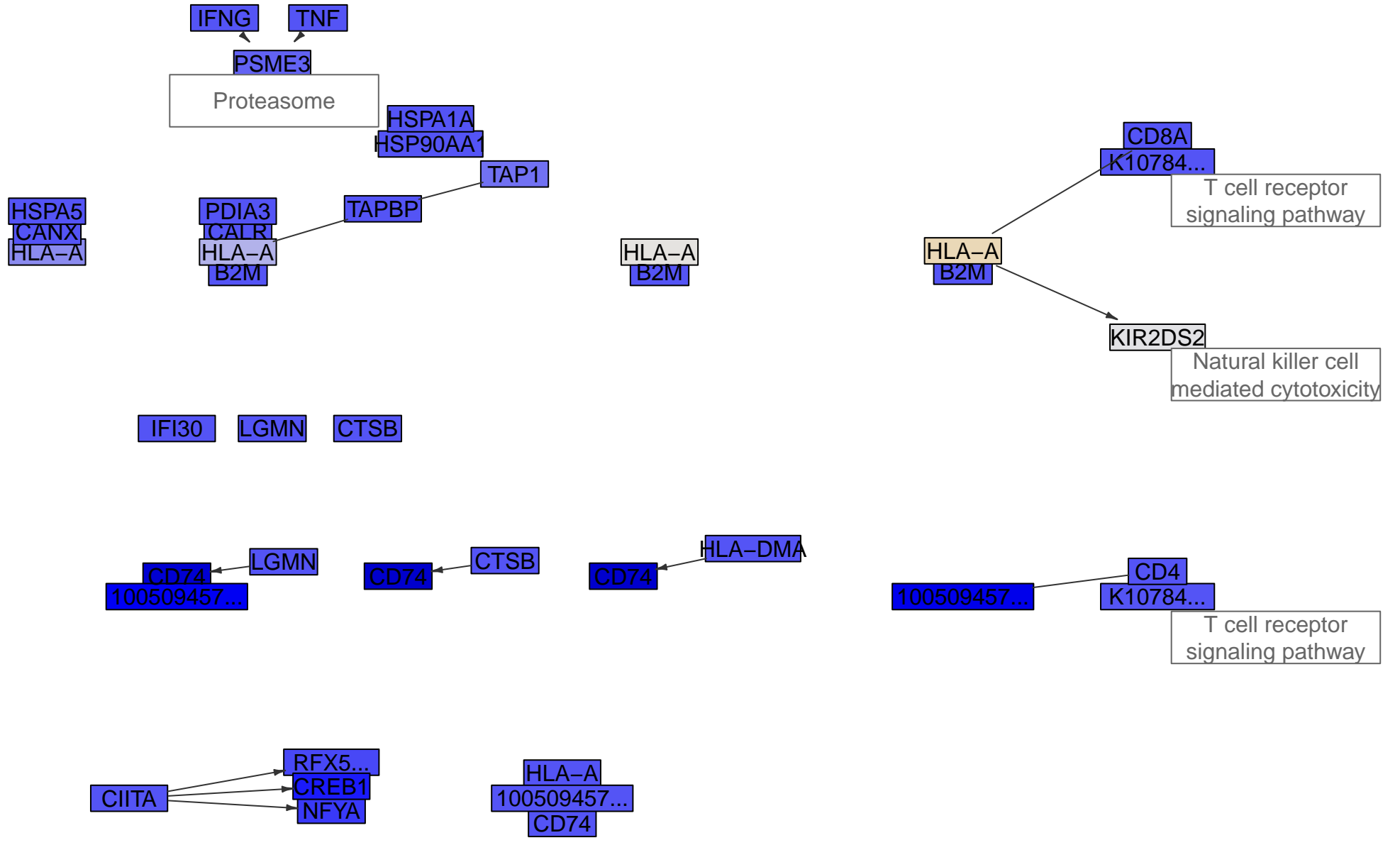




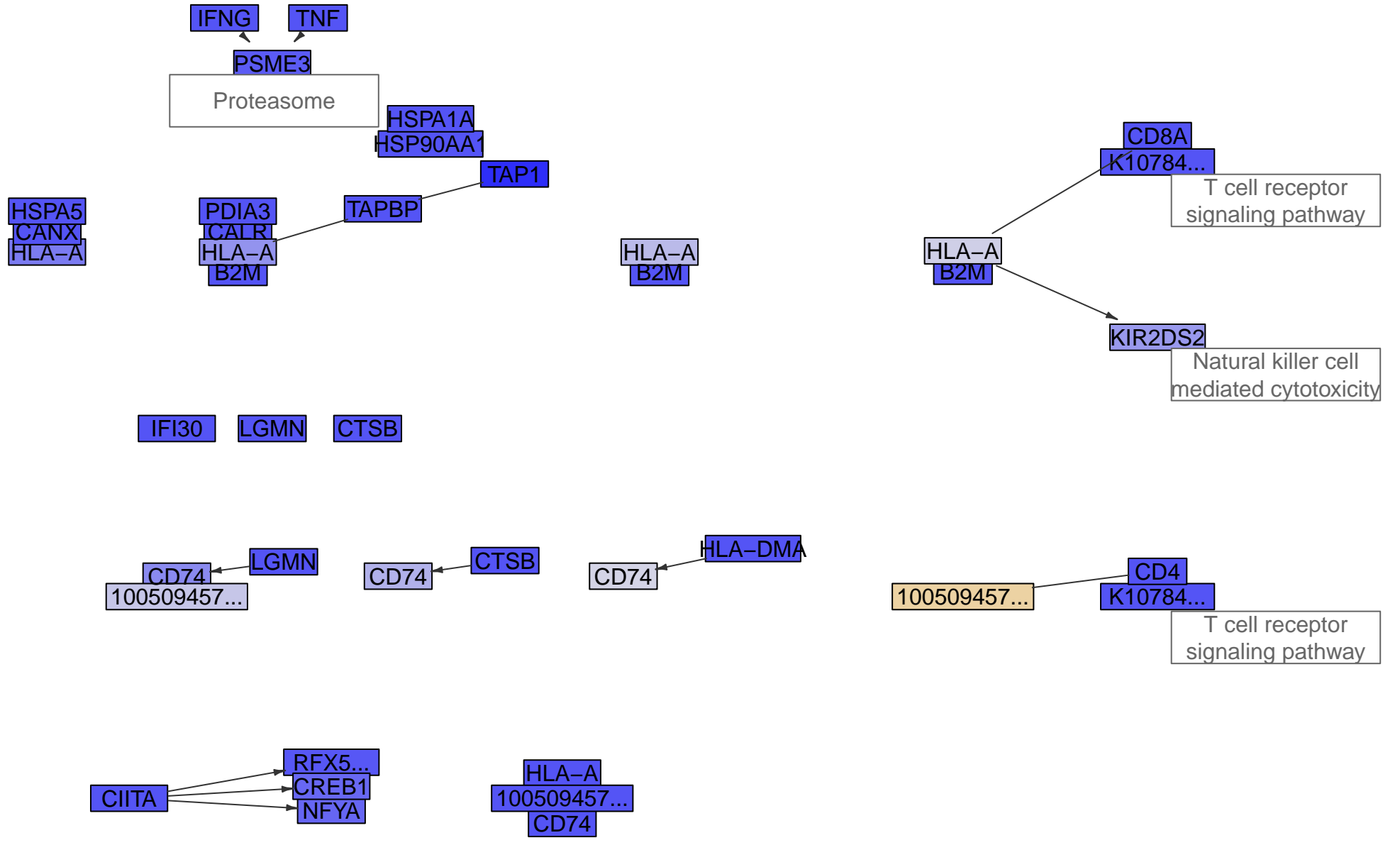
Antigen processing and presentation  
MPI-194



Antigen processing and presentation  
MPI-195



Antigen processing and presentation  
MPI-196

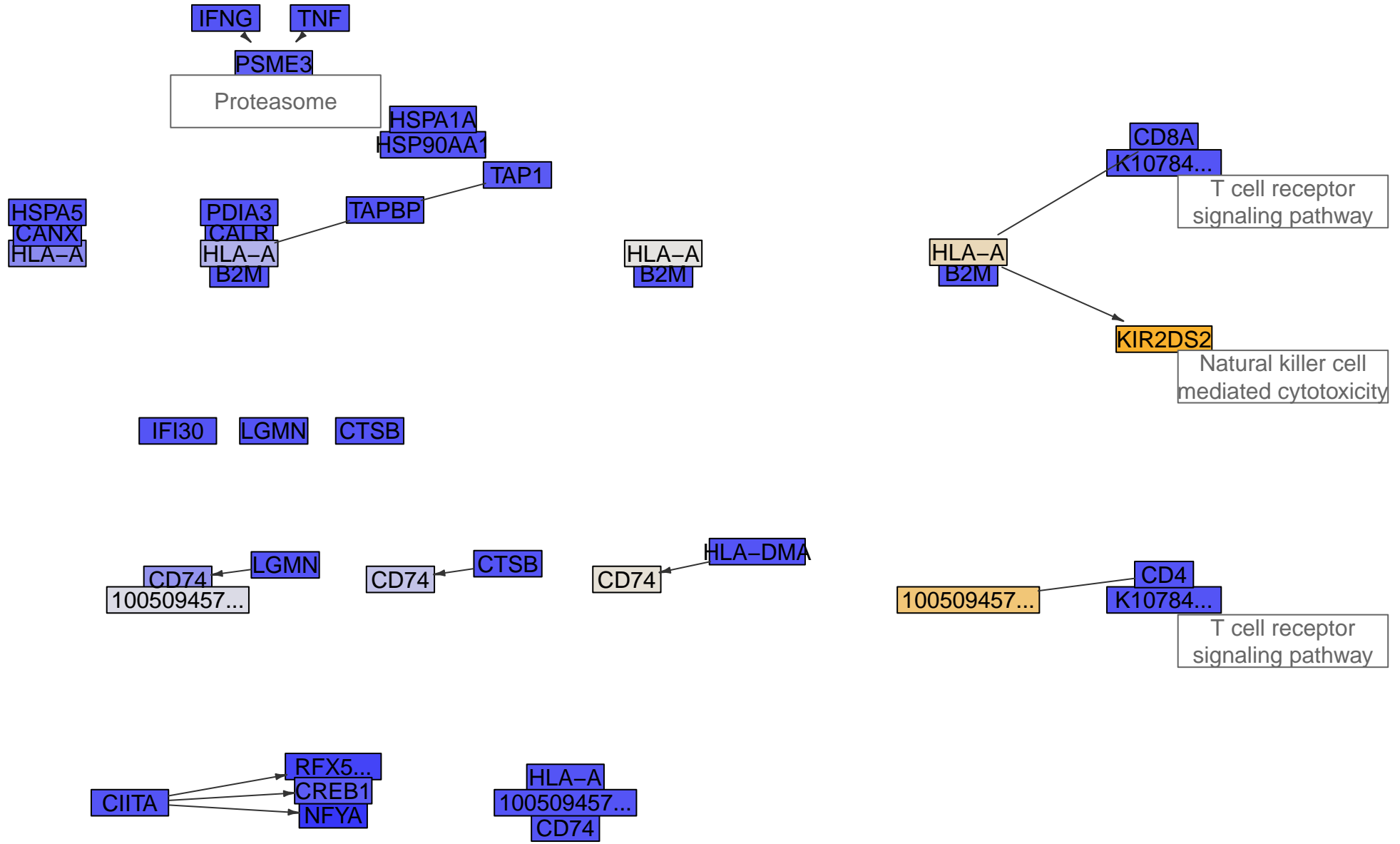




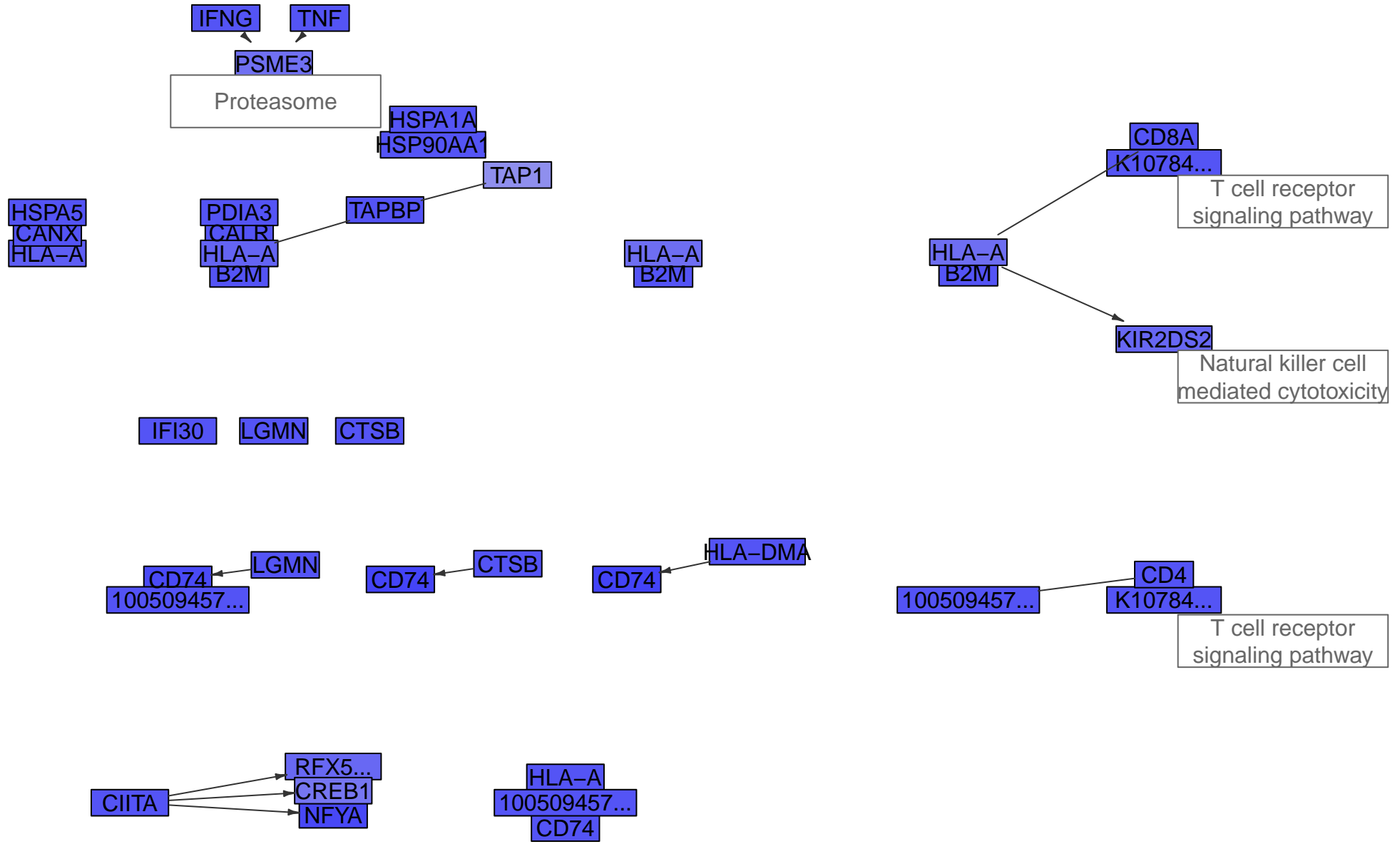




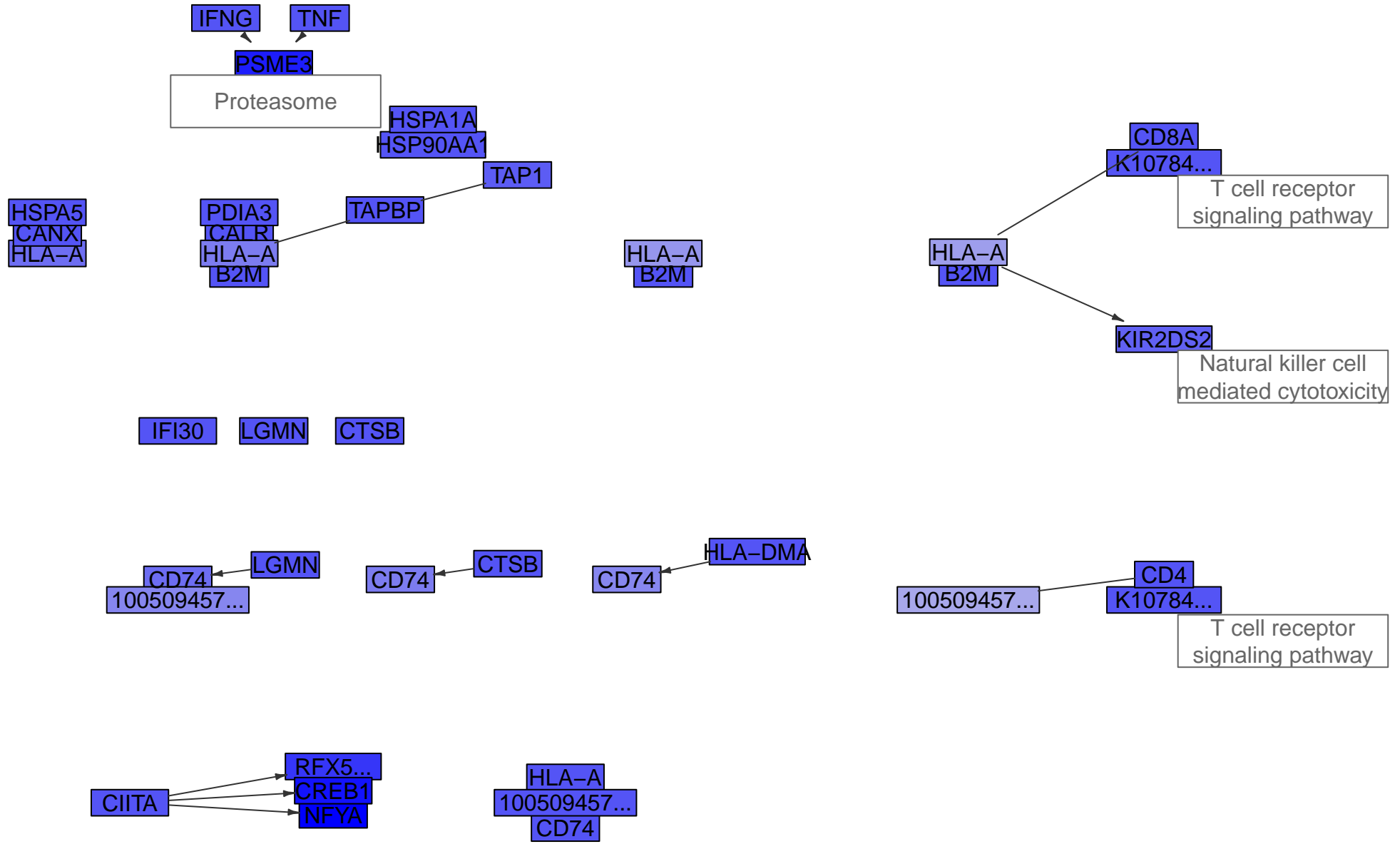
Antigen processing and presentation  
MPI-200



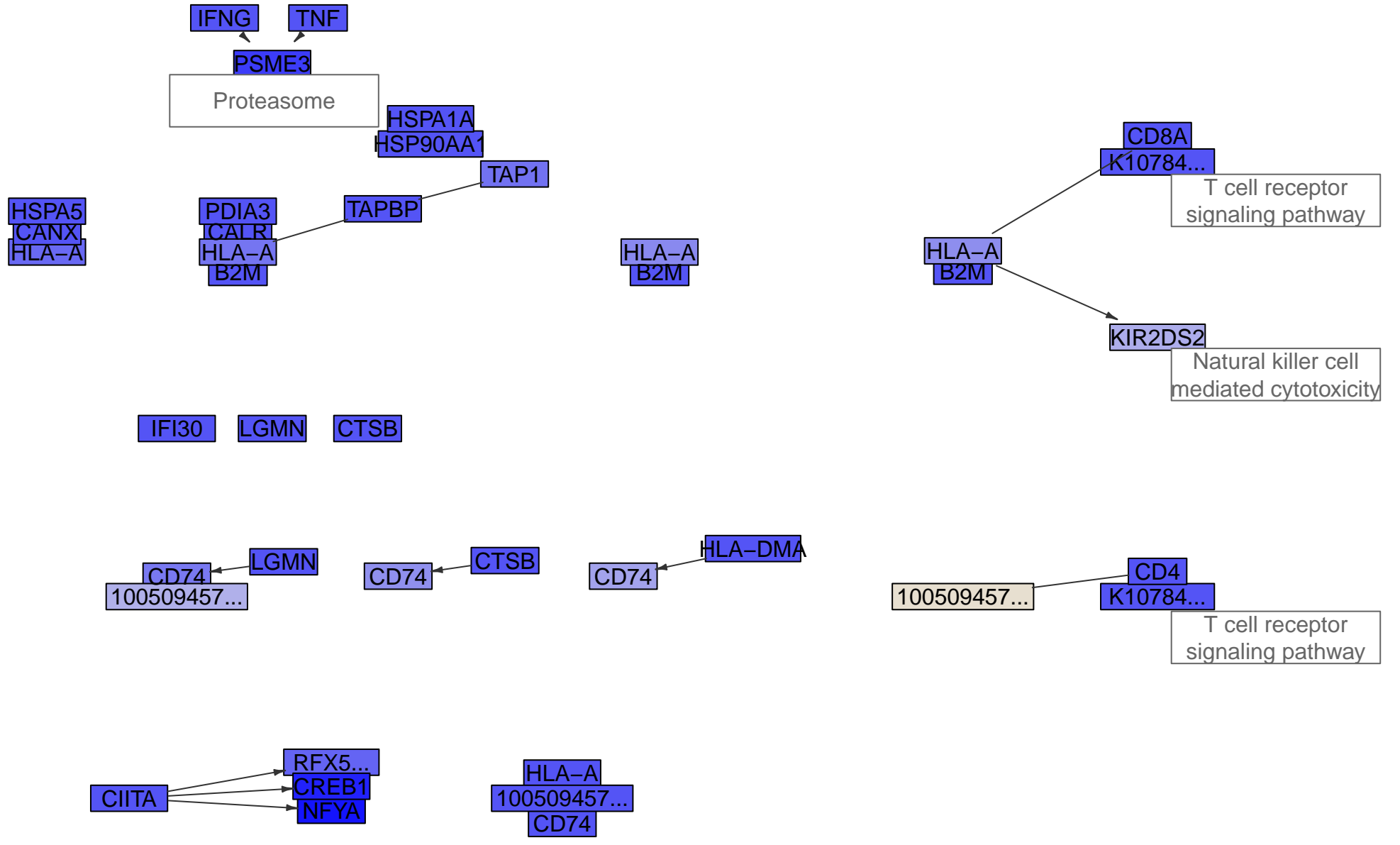
Antigen processing and presentation  
MPI-201



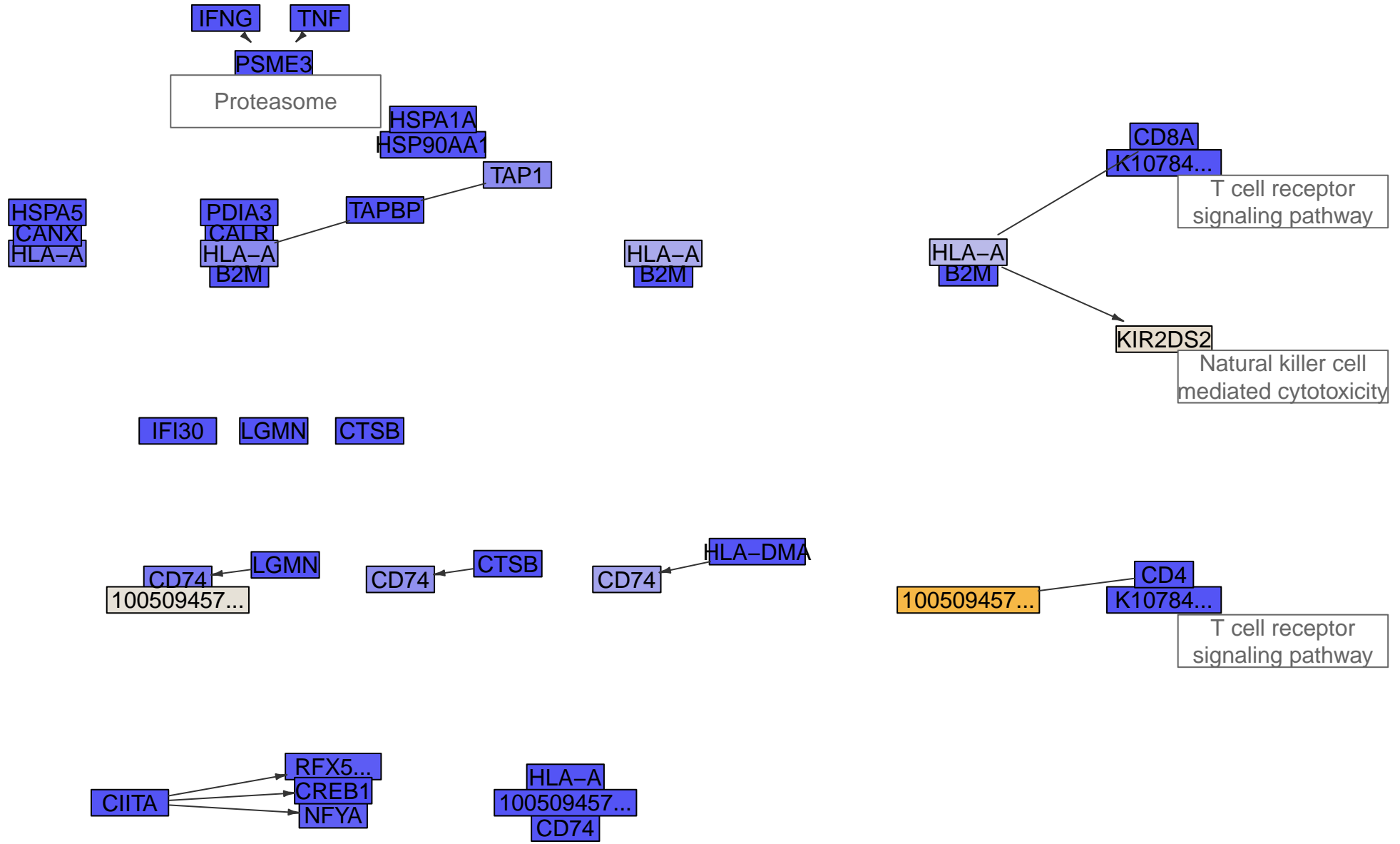
Antigen processing and presentation  
MPI-202



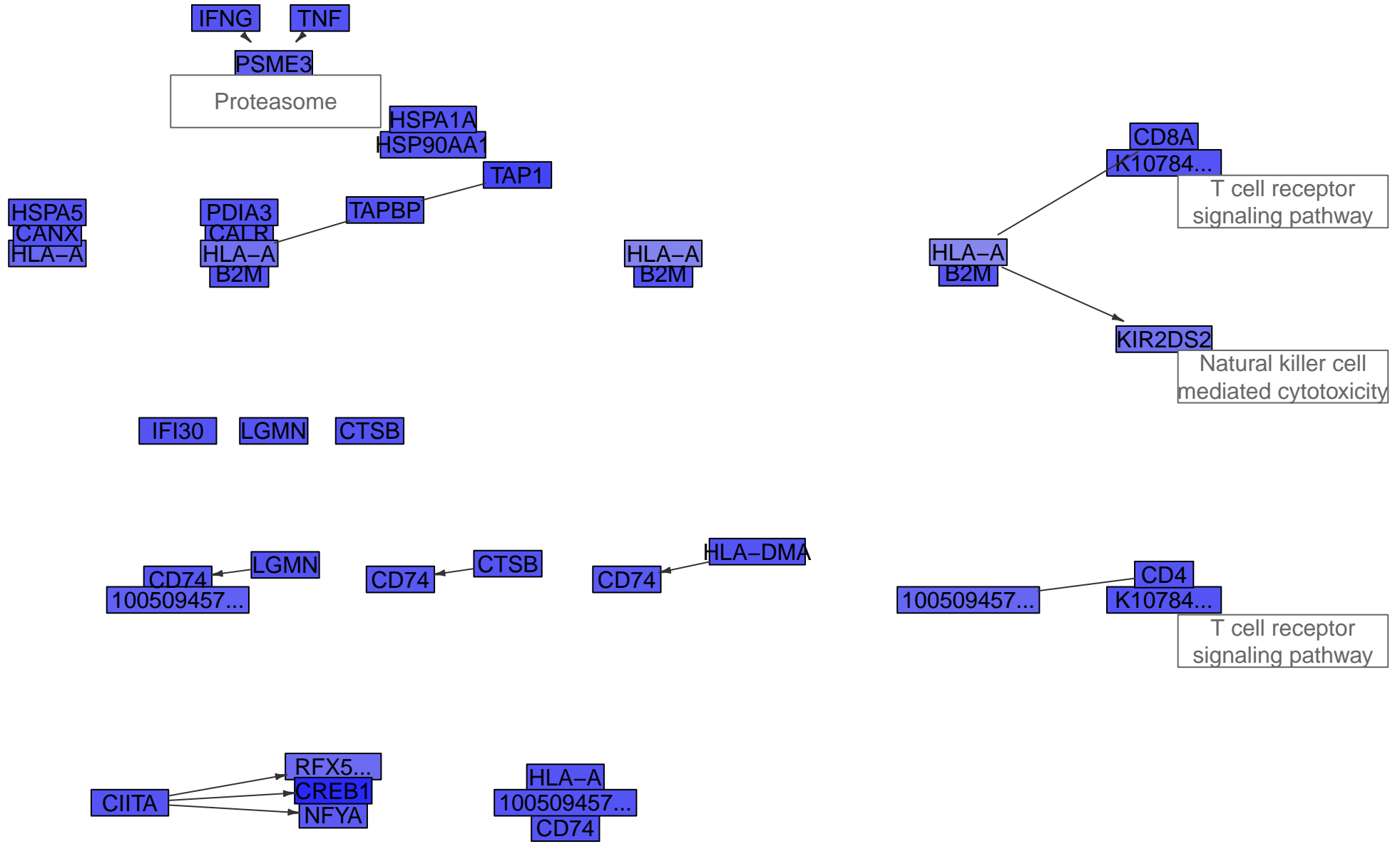
Antigen processing and presentation  
MPI-203



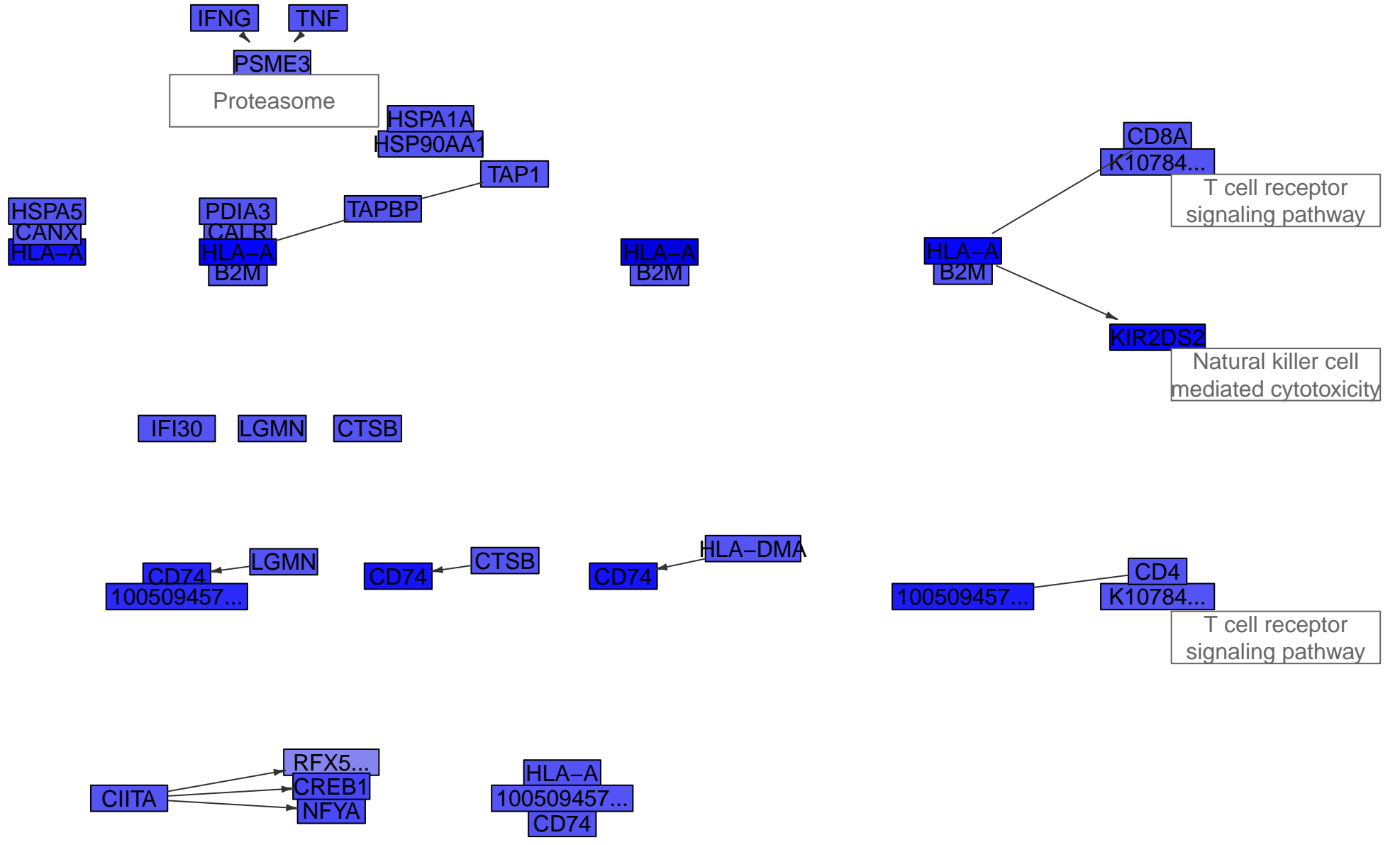
Antigen processing and presentation  
MPI-204



Antigen processing and presentation  
MPI-205

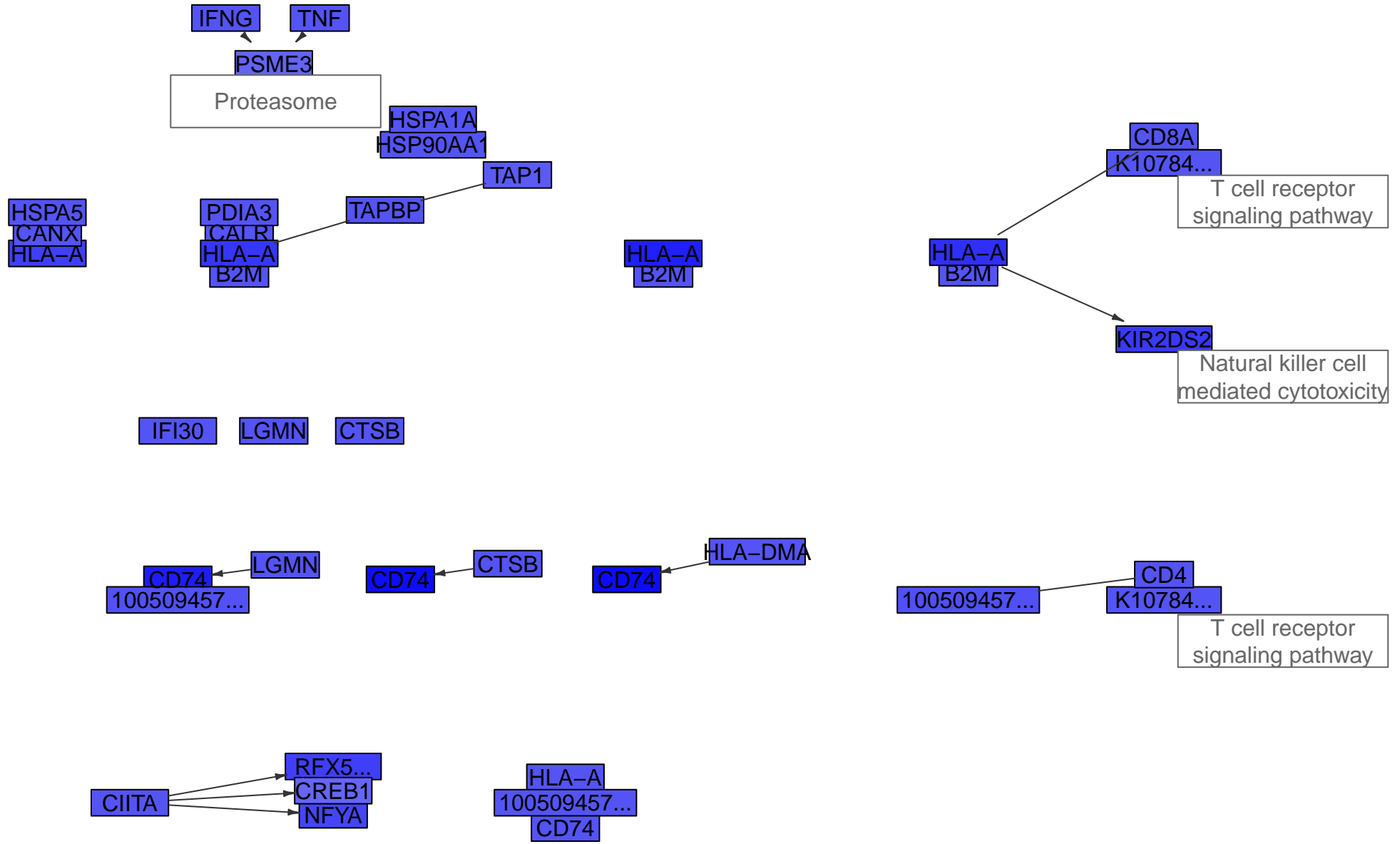


Antigen processing and presentation  
MPI-206

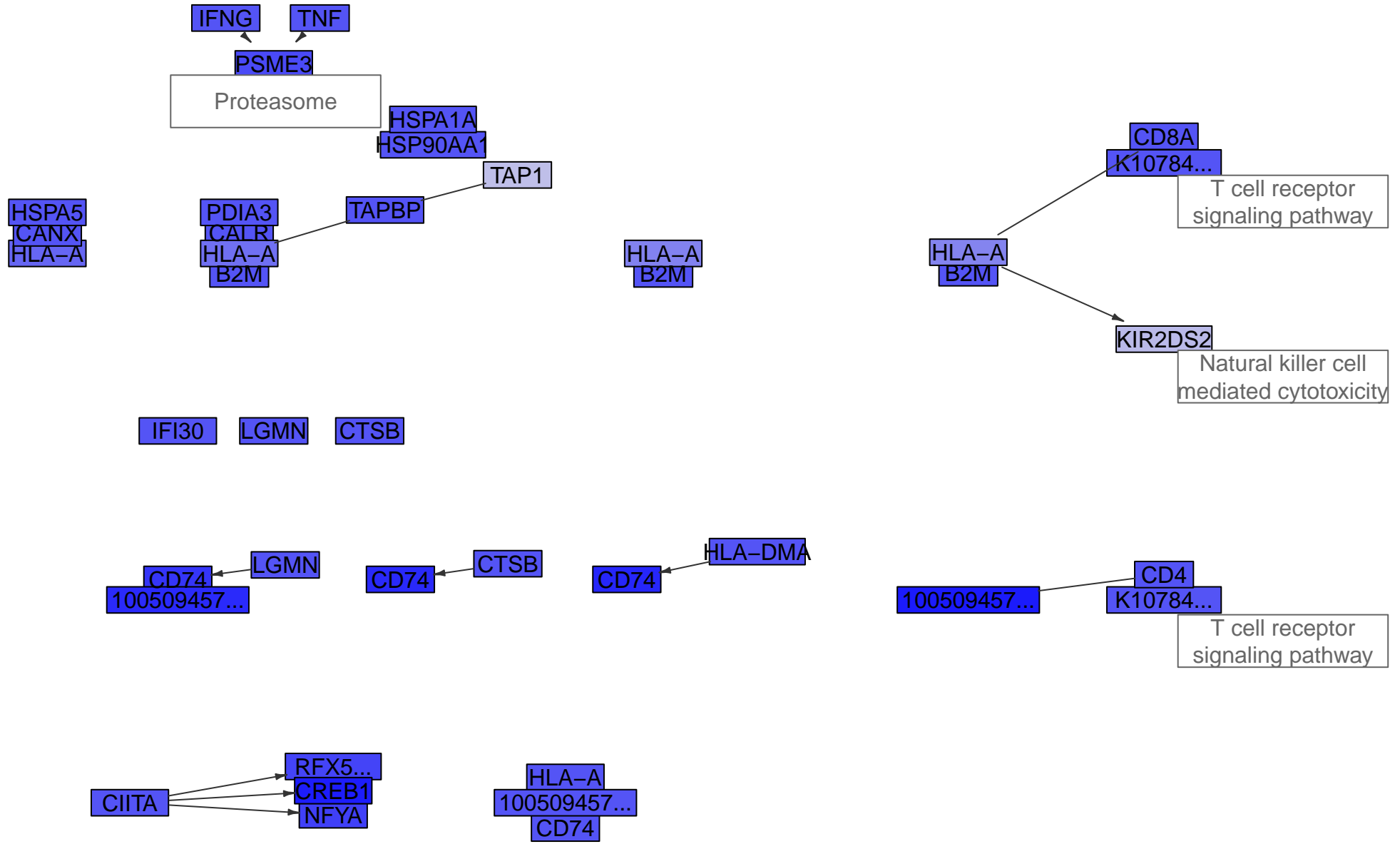




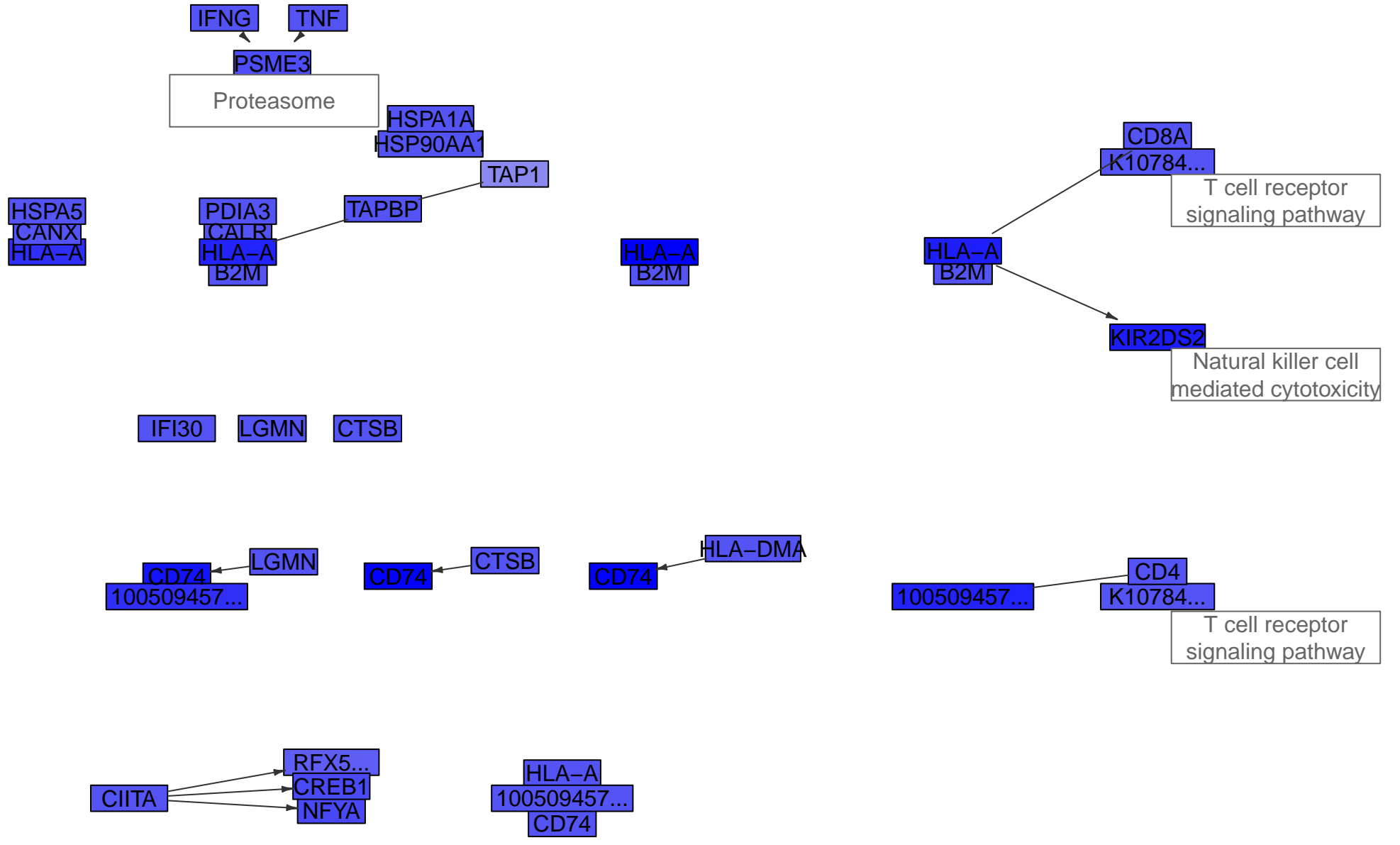
Antigen processing and presentation  
MPI-207



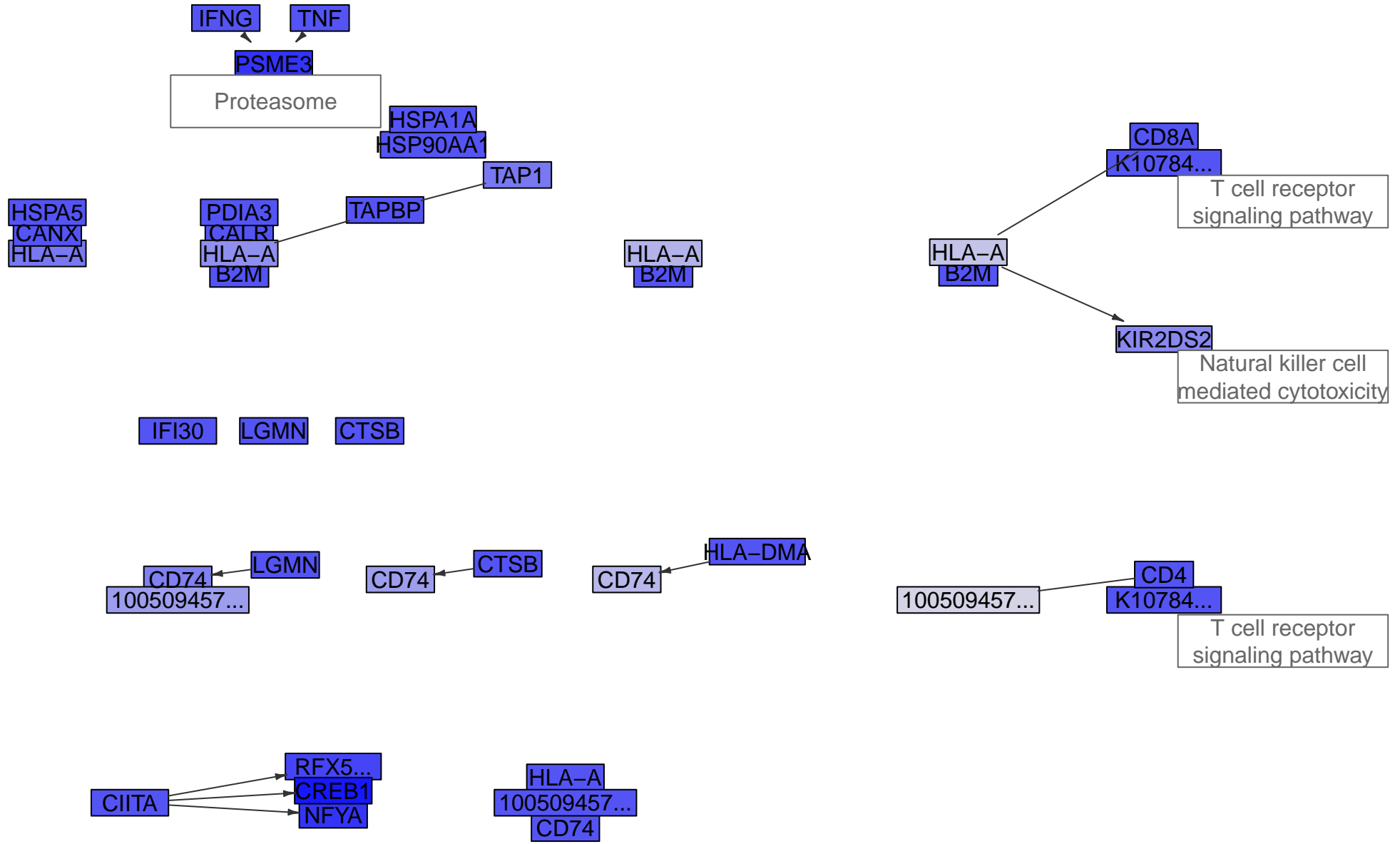
Antigen processing and presentation  
MPI-208



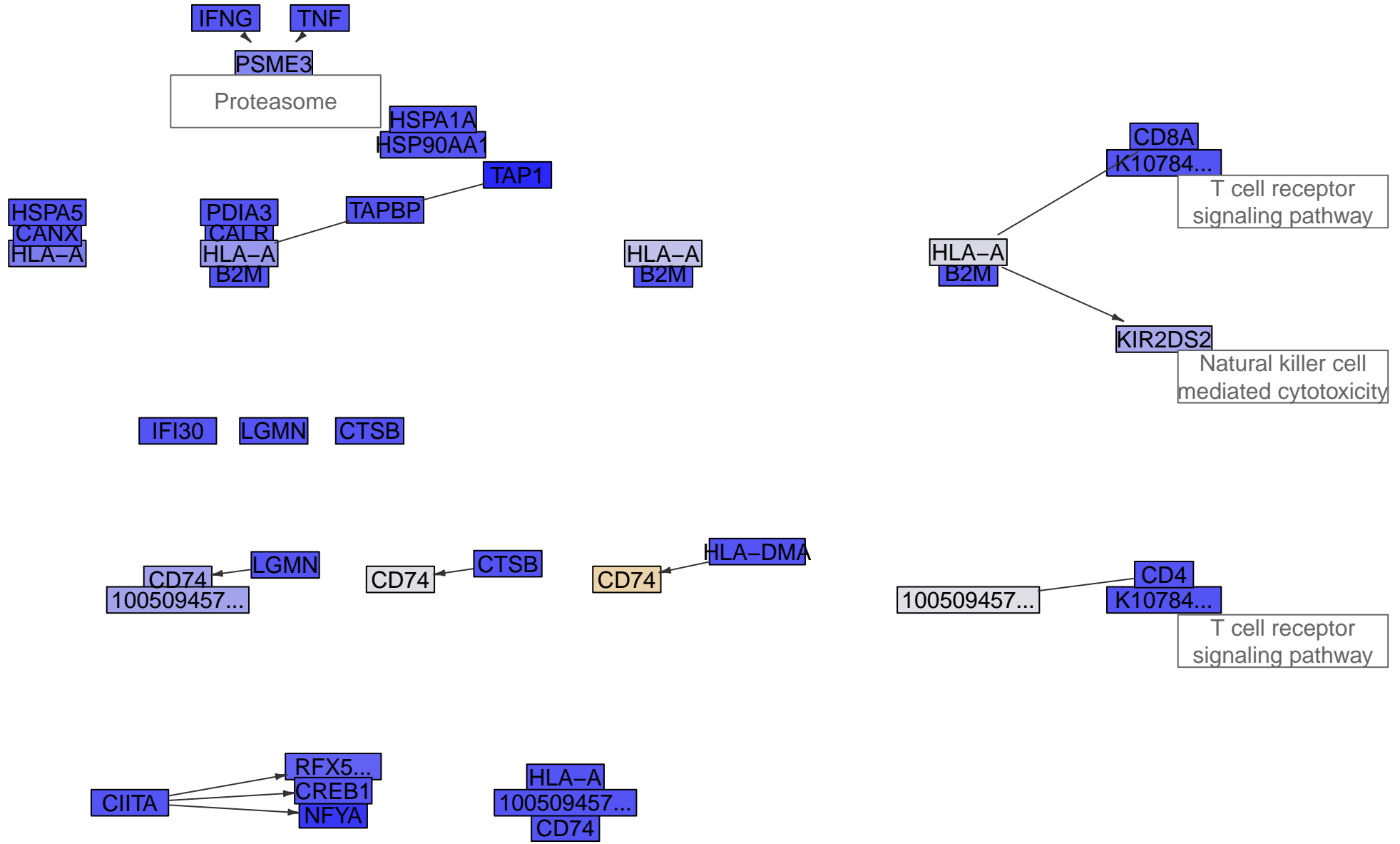
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MPI-209



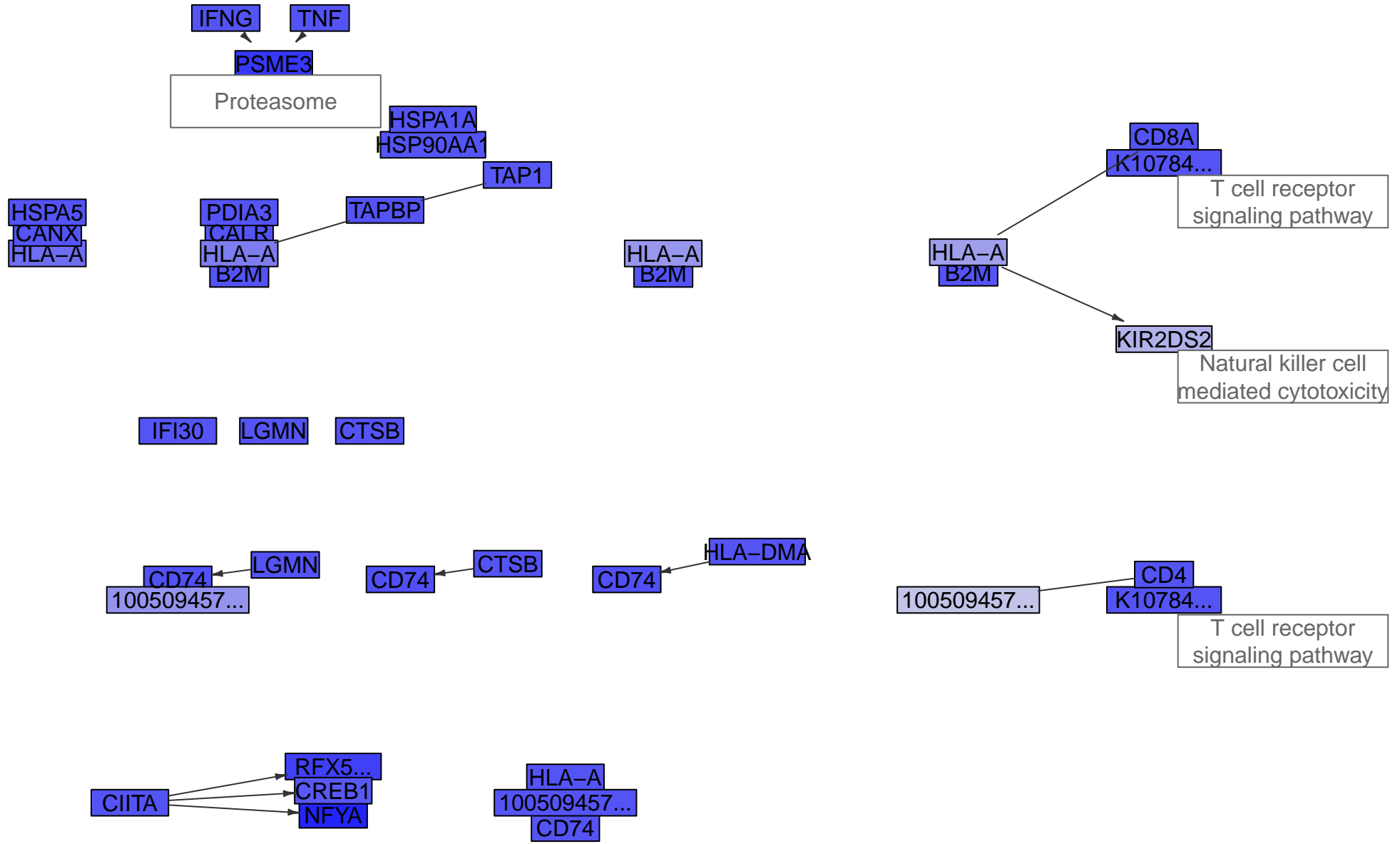
Antigen processing and presentation  
MPI-210



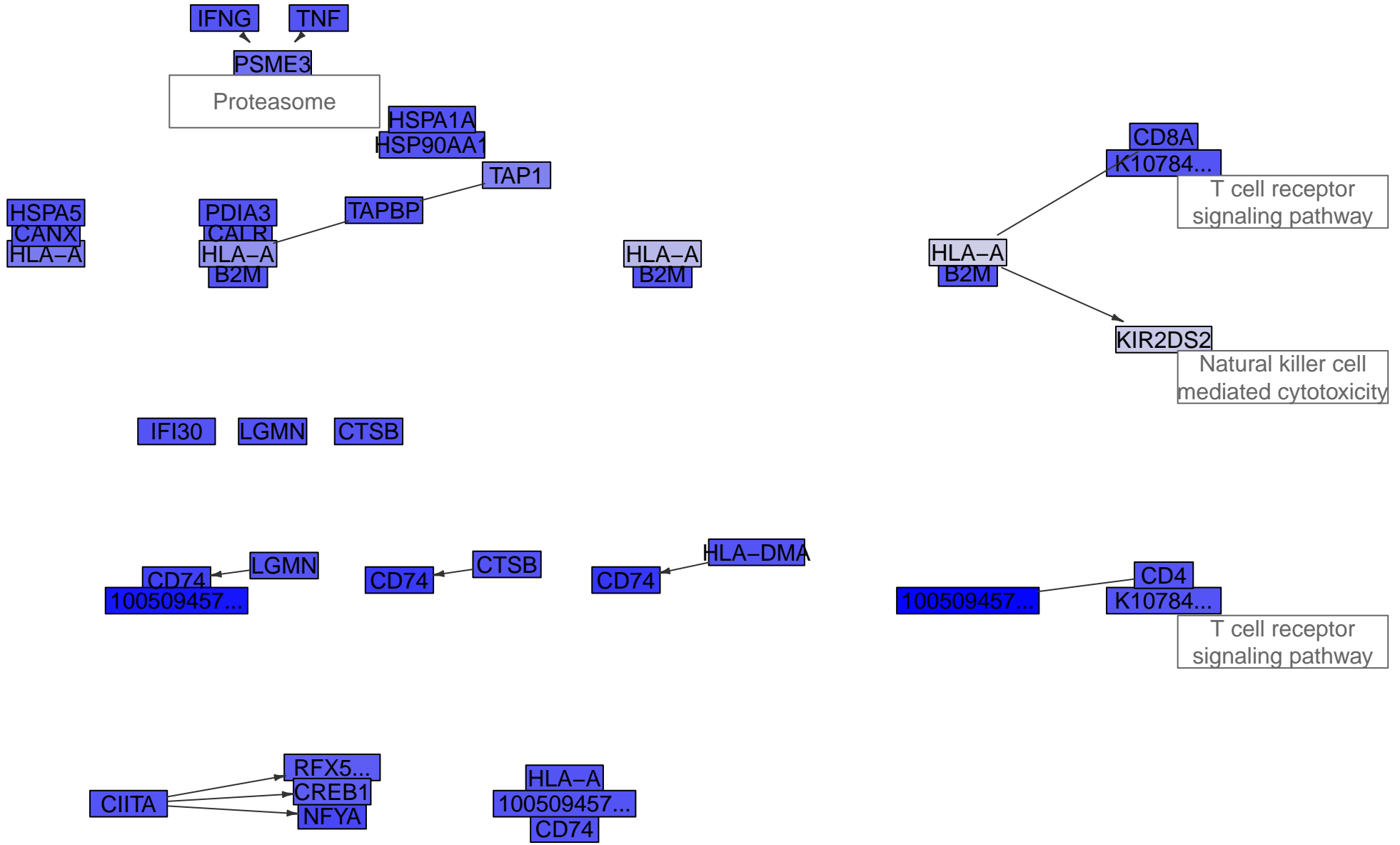
Antigen processing and presentation  
MPI-212



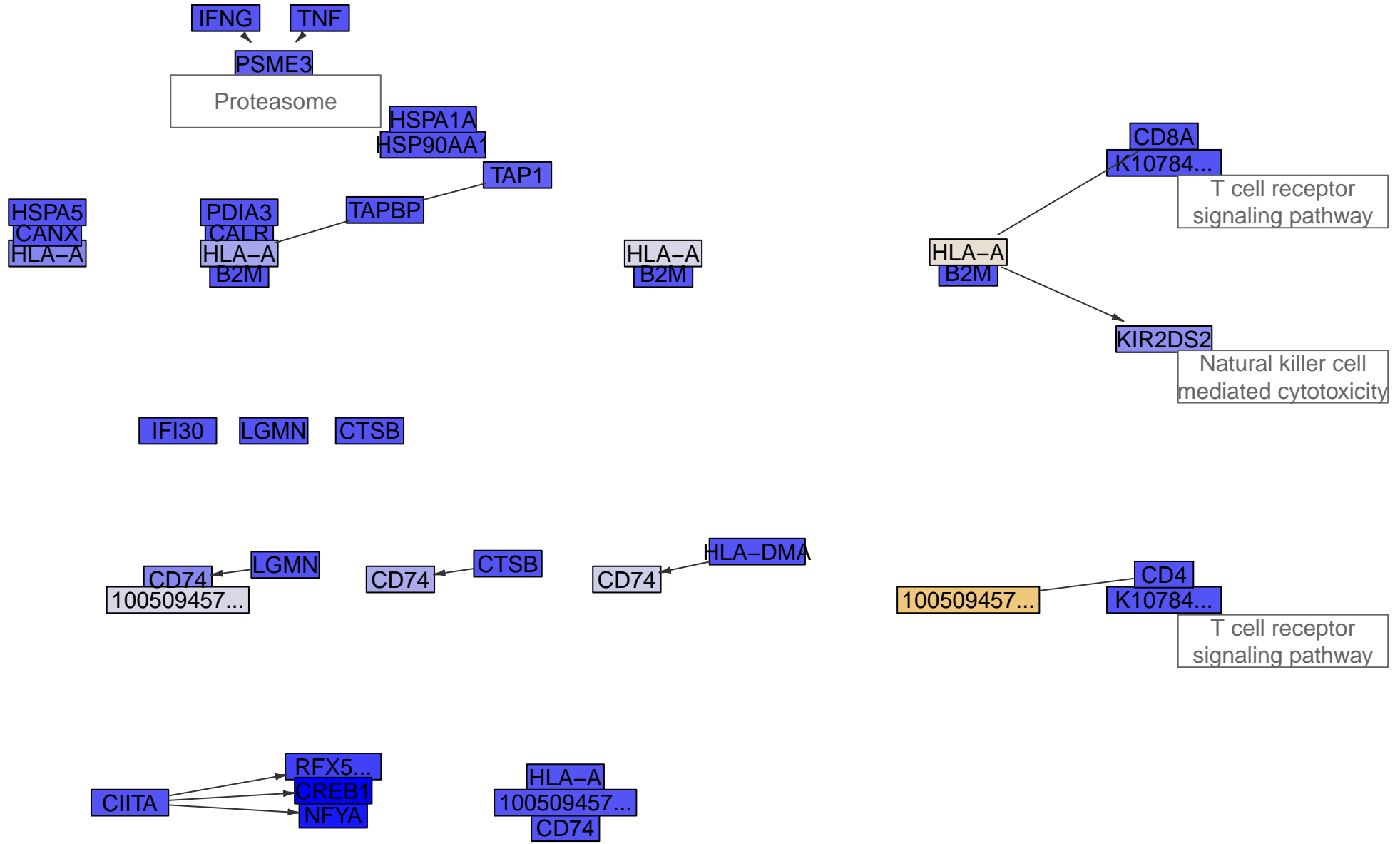
Antigen processing and presentation  
MPI-213



Antigen processing and presentation  
MPI-215

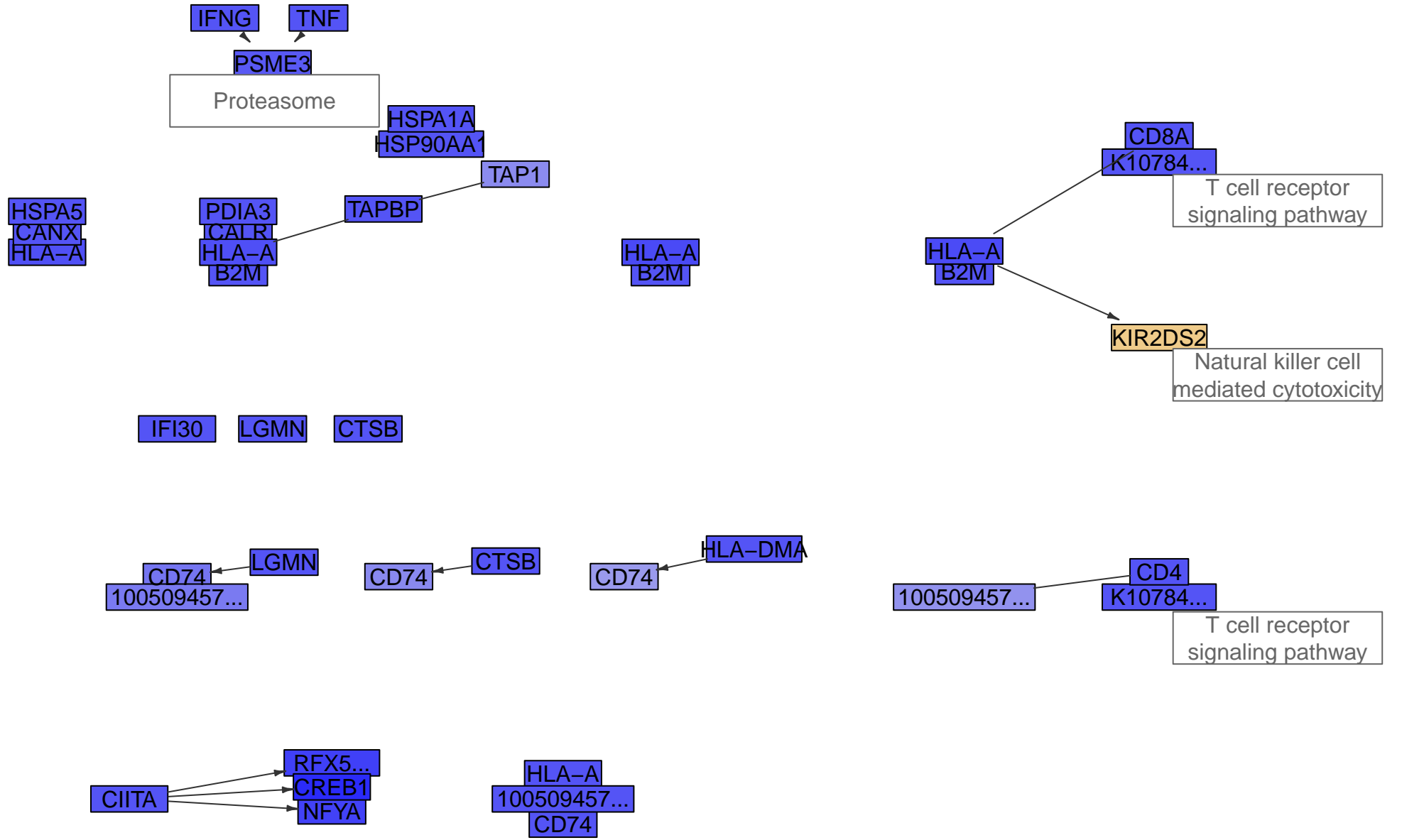


Antigen processing and presentation  
MPI-219

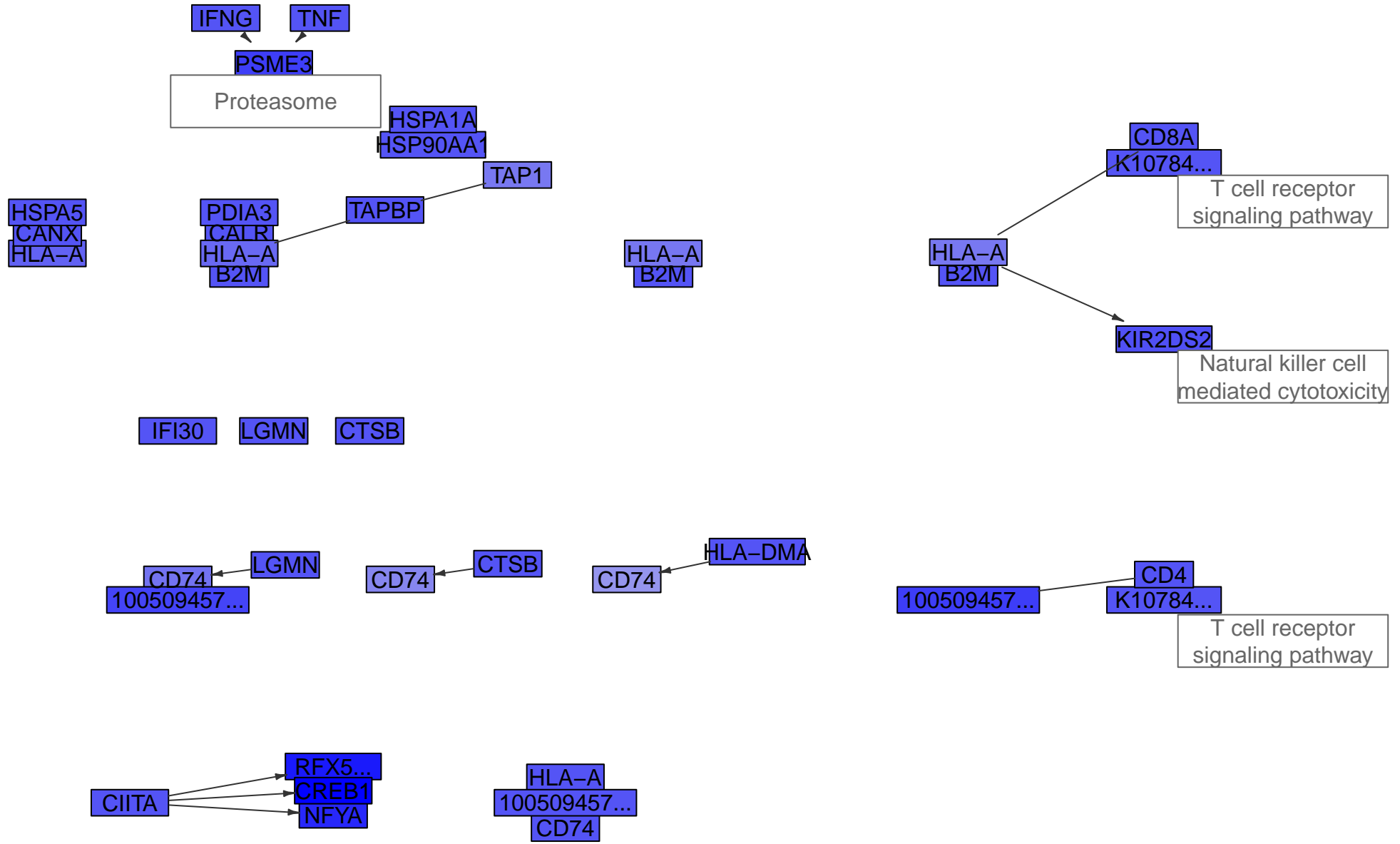




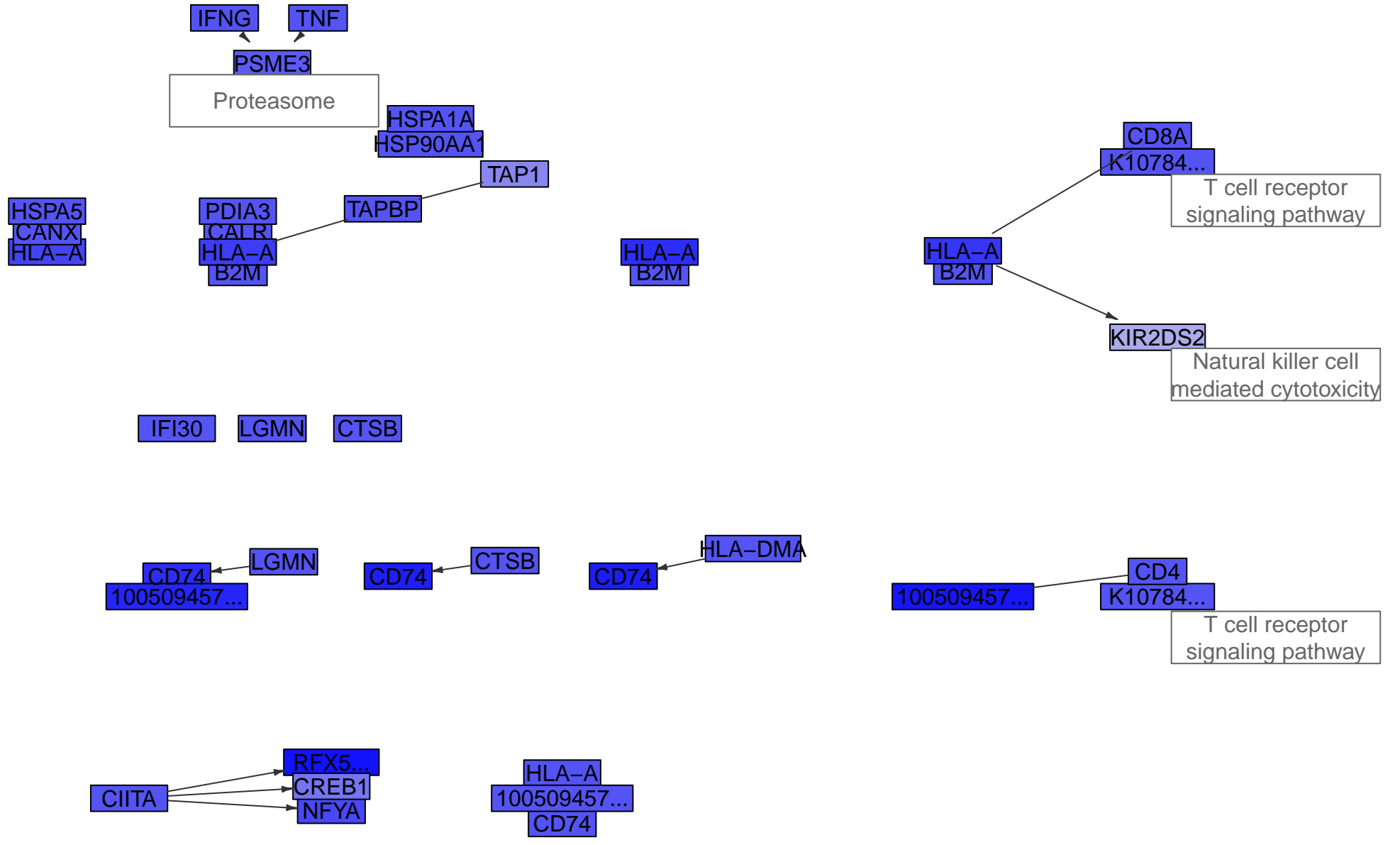
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MPI-221



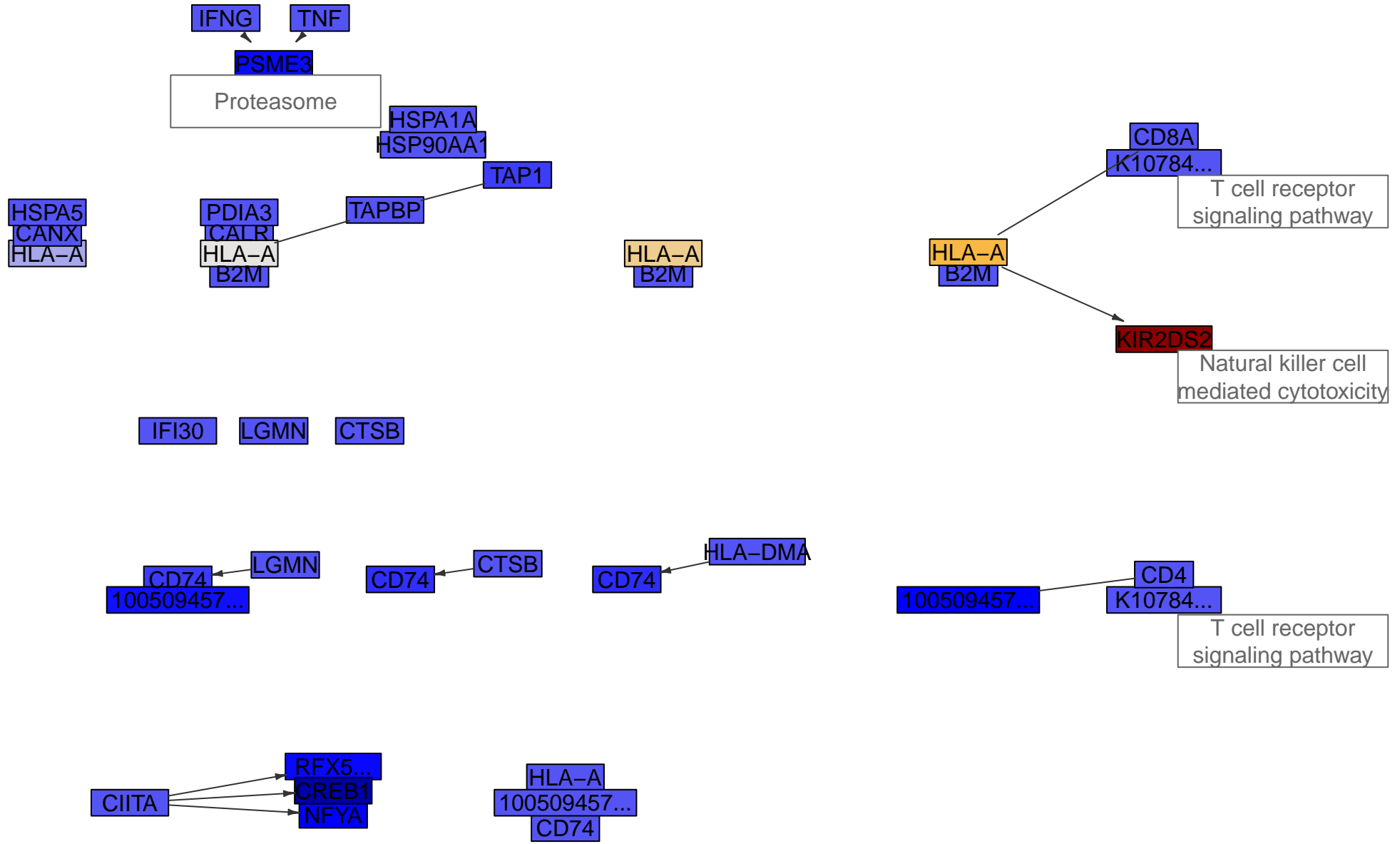
Antigen processing and presentation  
MPI-223a



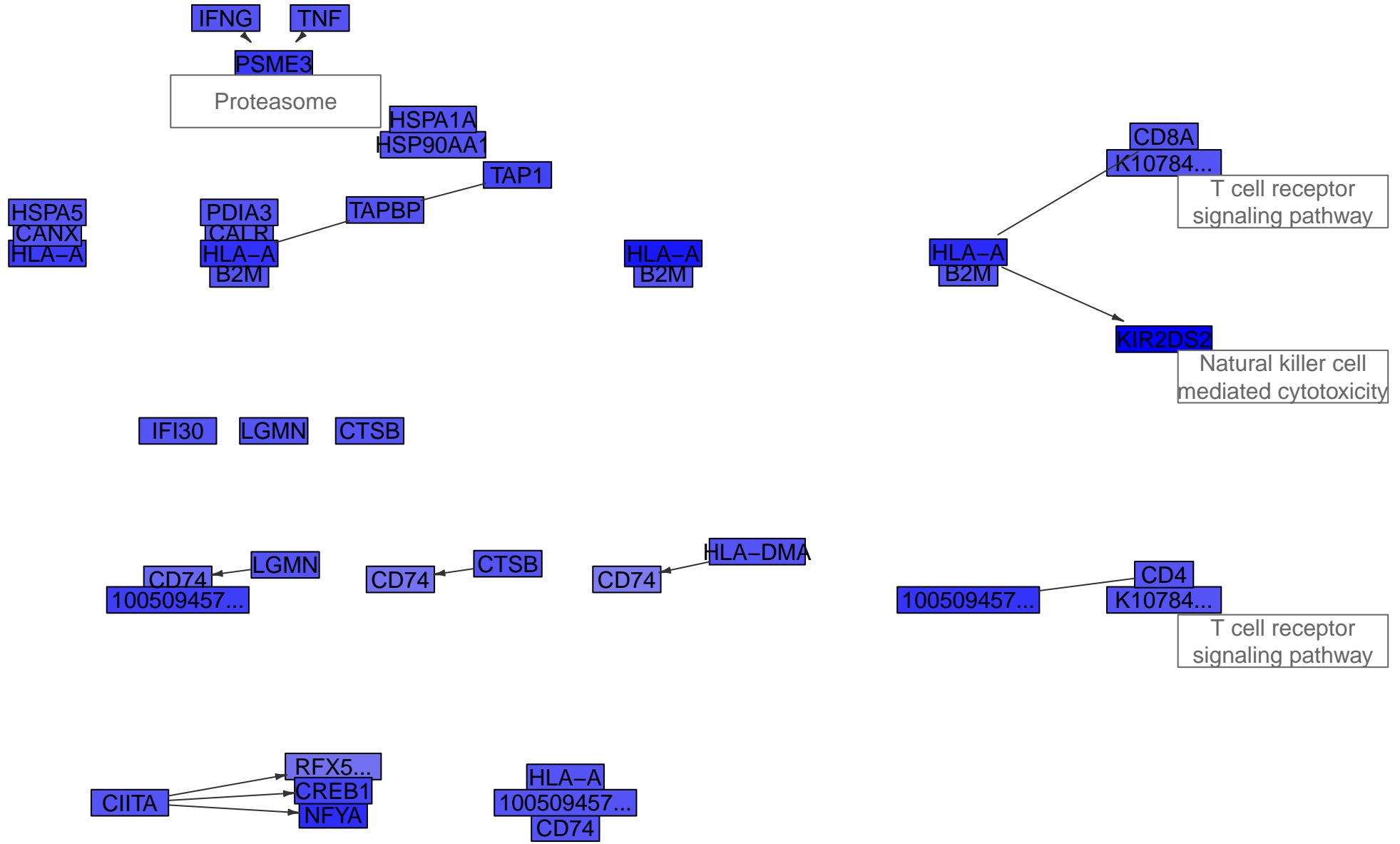
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MPI-224



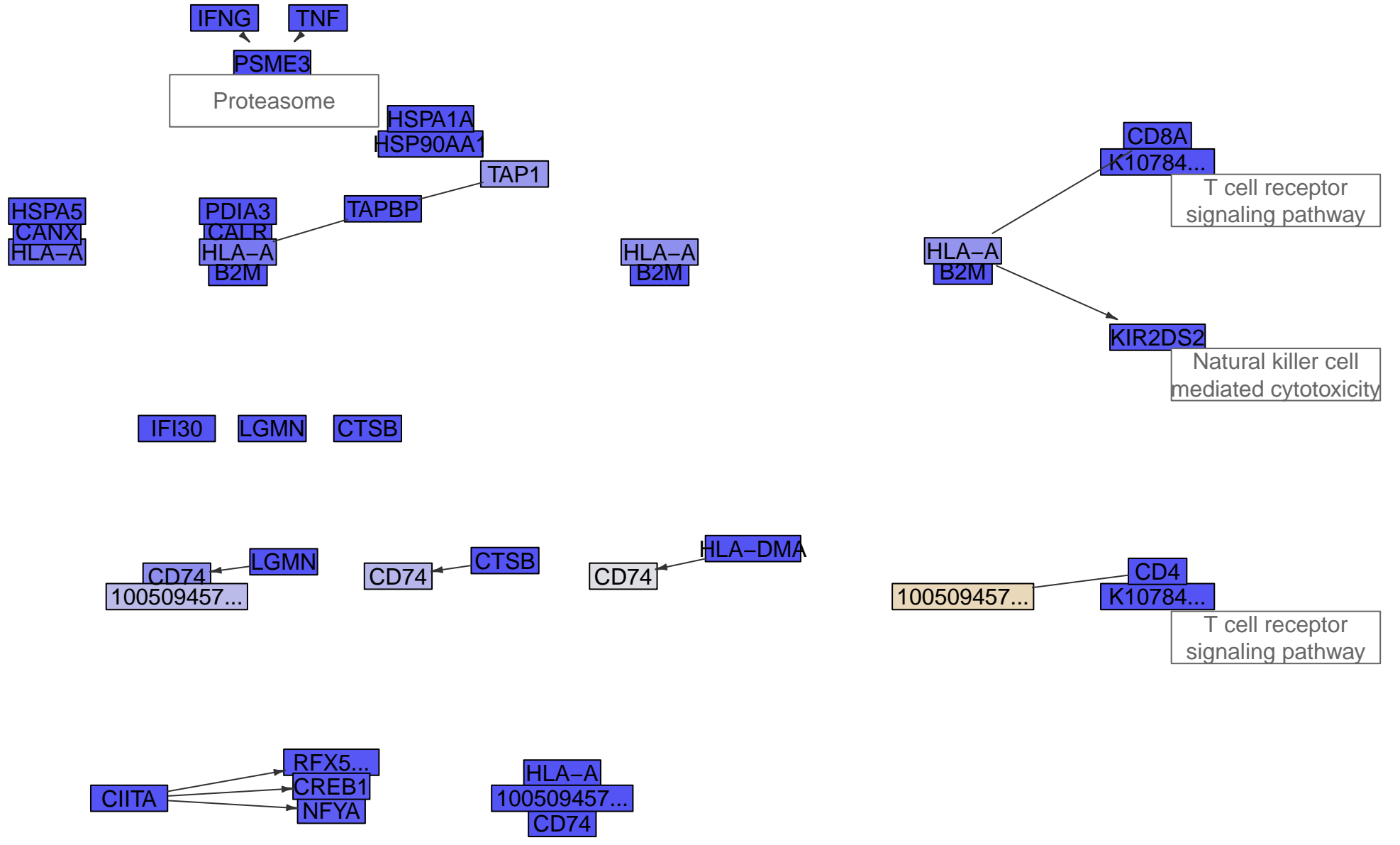
Antigen processing and presentation  
MPI-226



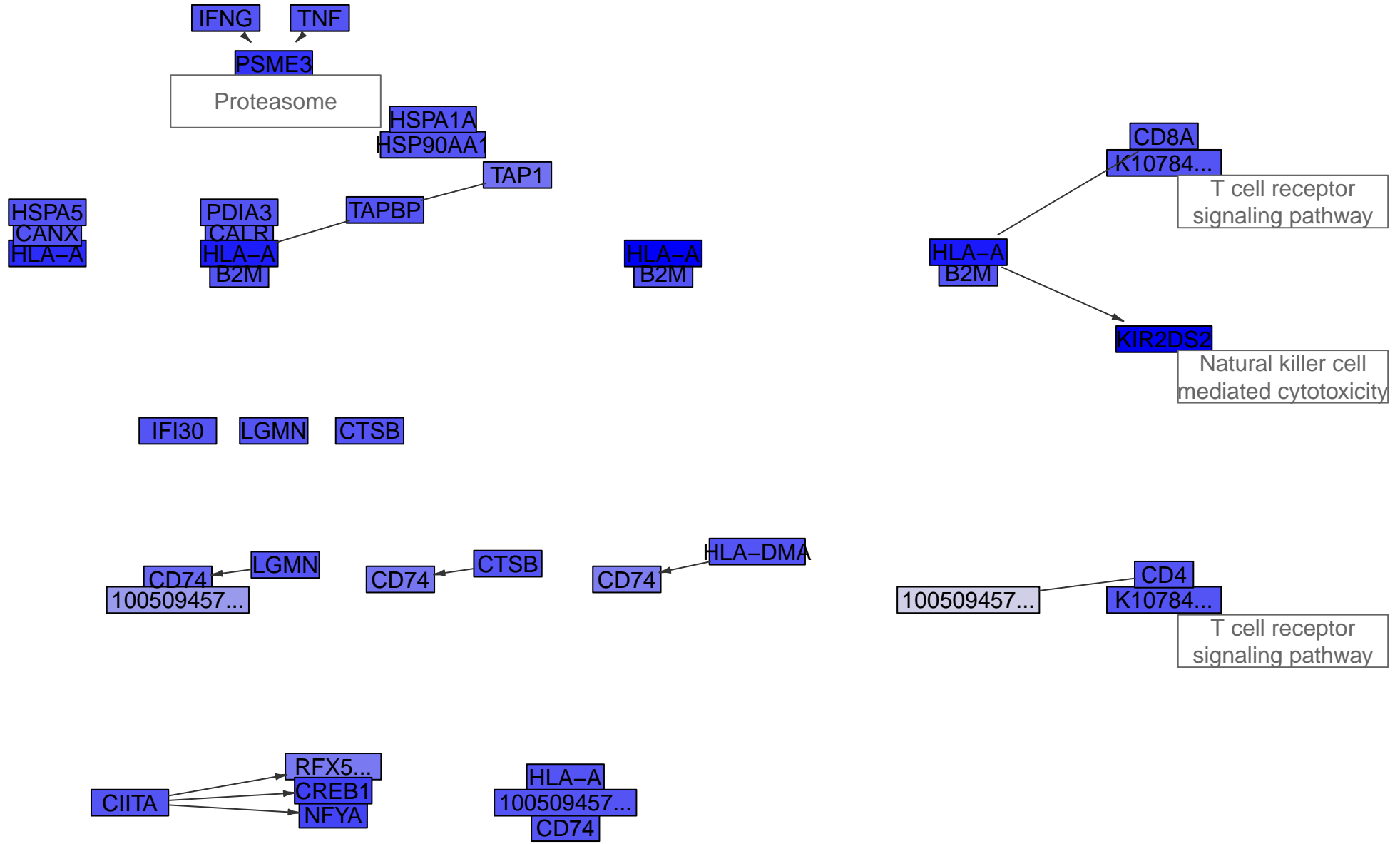
Antigen processing and presentation  
MPI-227



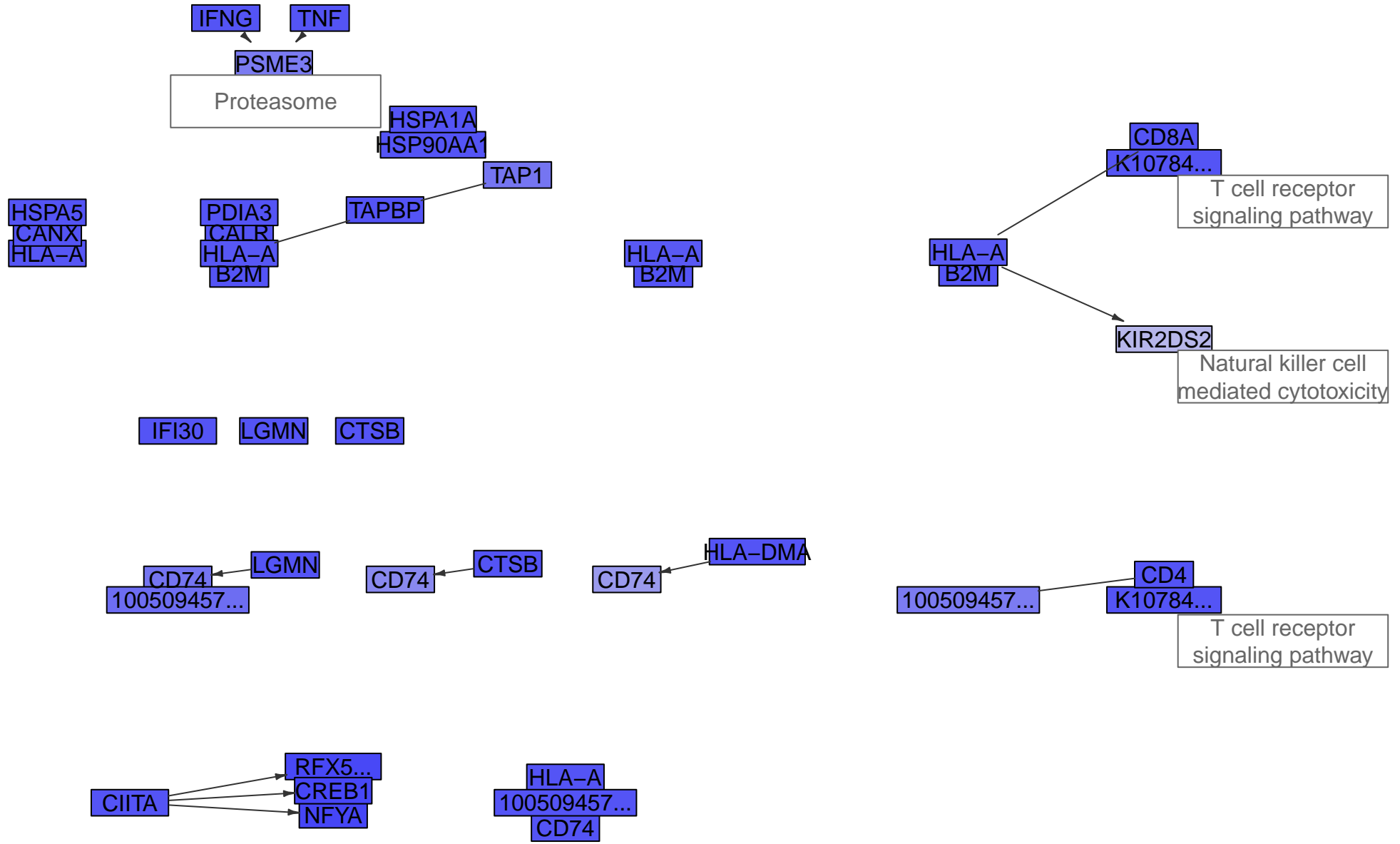
Antigen processing and presentation  
MPI-228



Antigen processing and presentation  
MPI-229

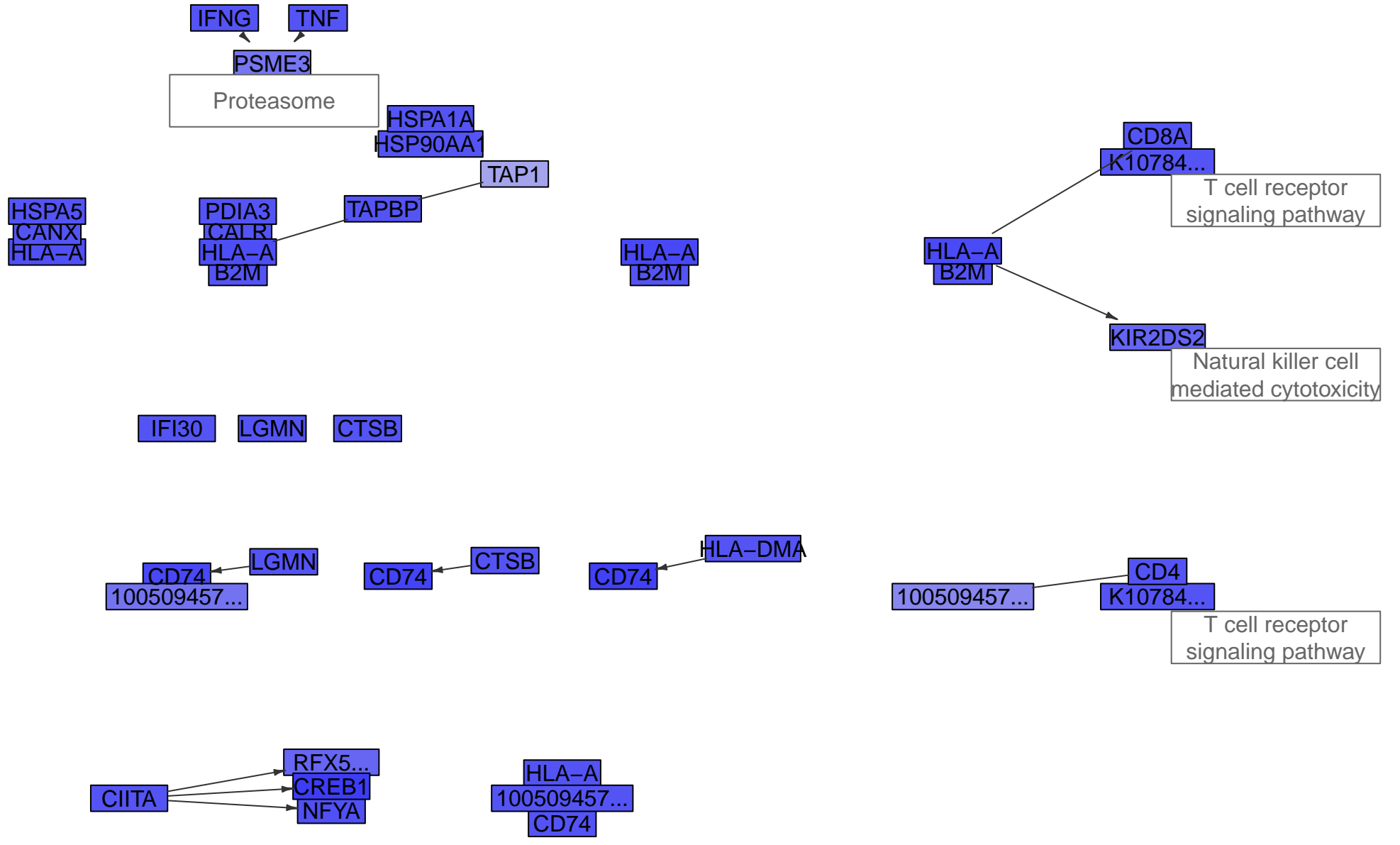


Antigen processing and presentation  
MPI-230

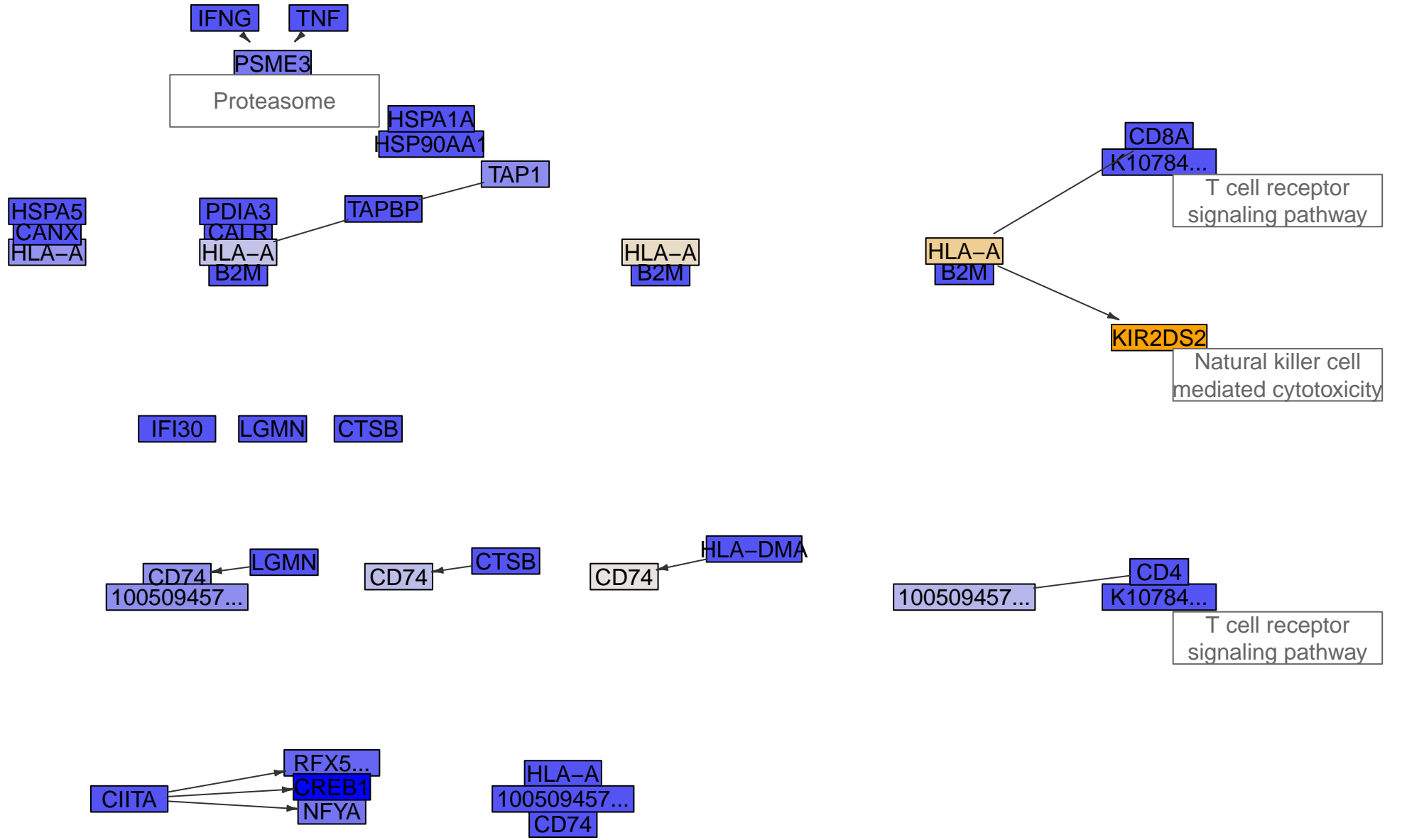




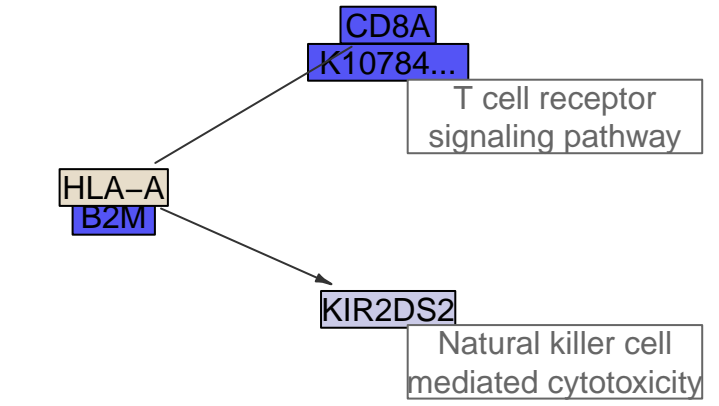
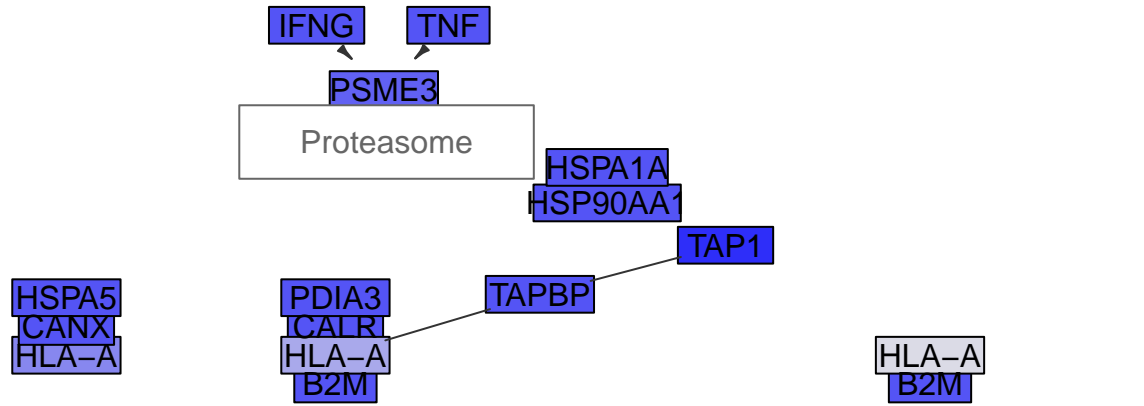
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MPI-231



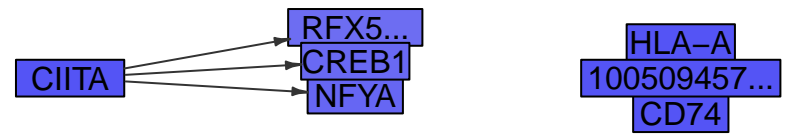
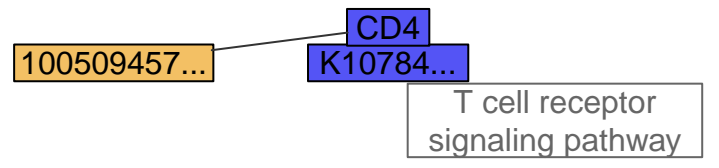
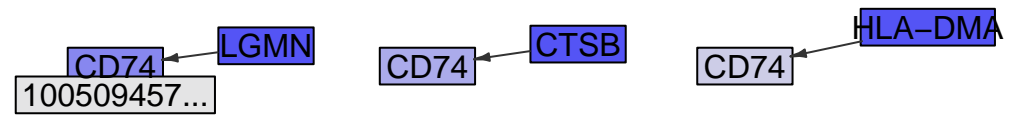
Antigen processing and presentation  
MPI-232



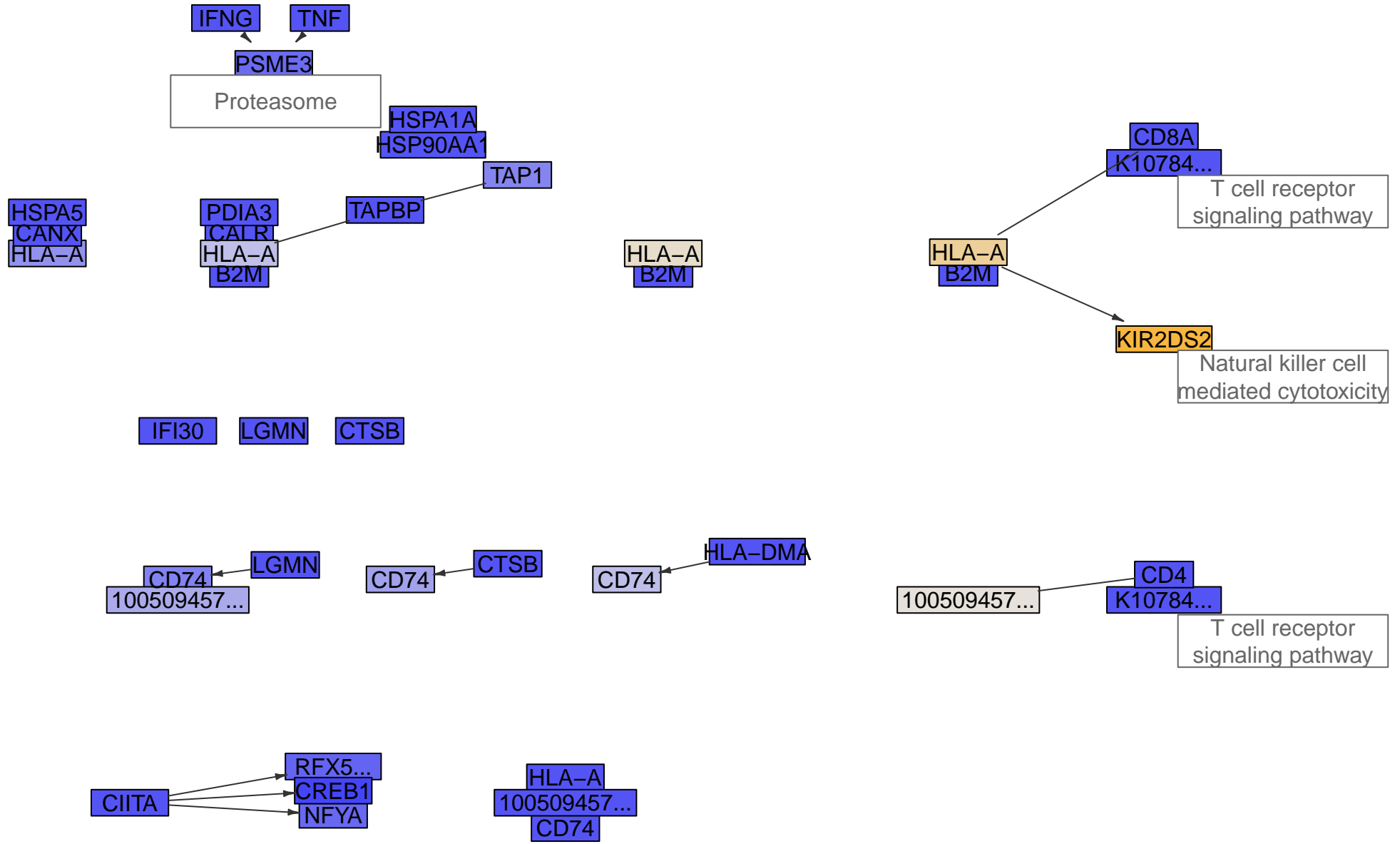
Antigen processing and presentation  
MPI-233



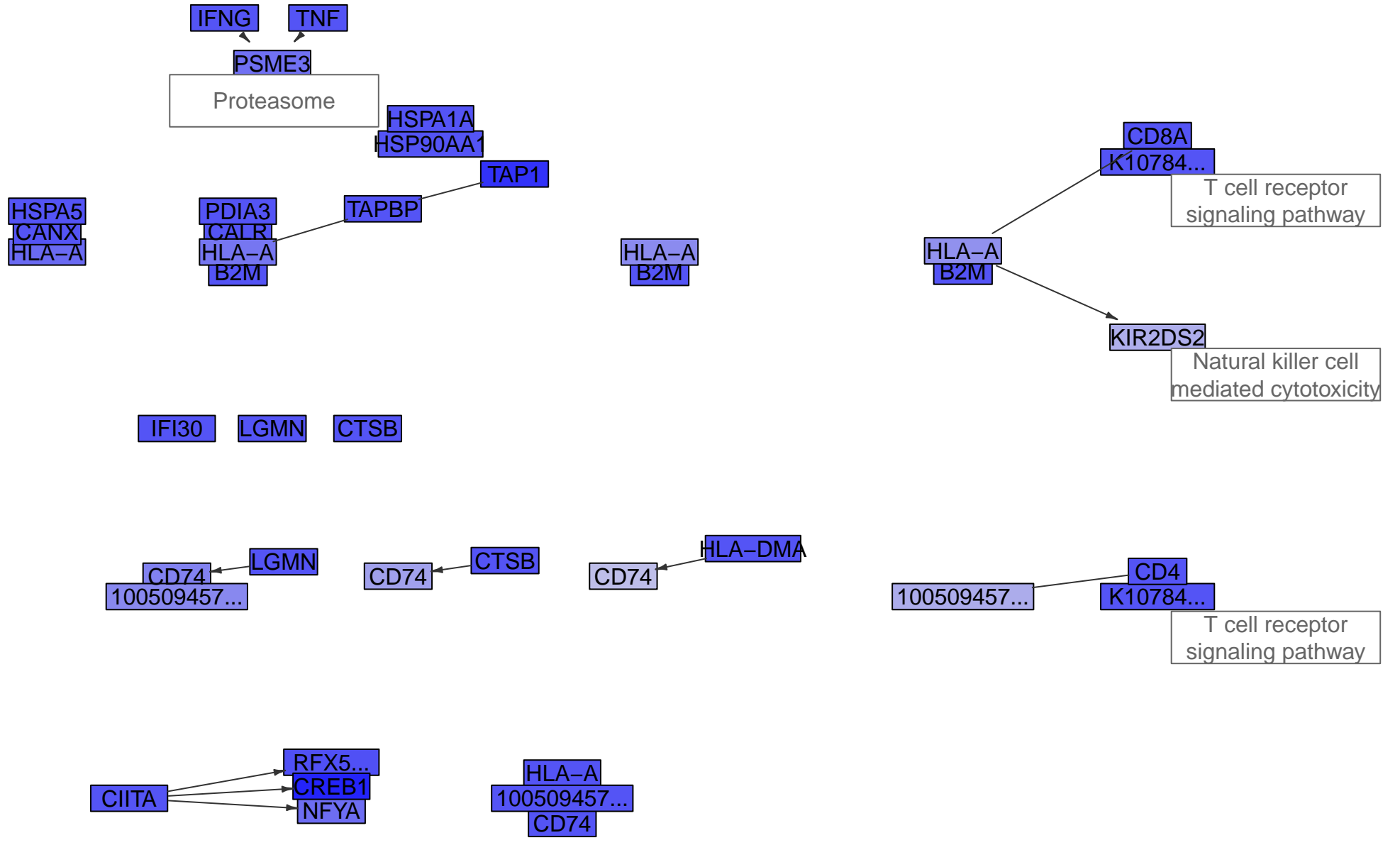
IFI30 LGMN CTSB



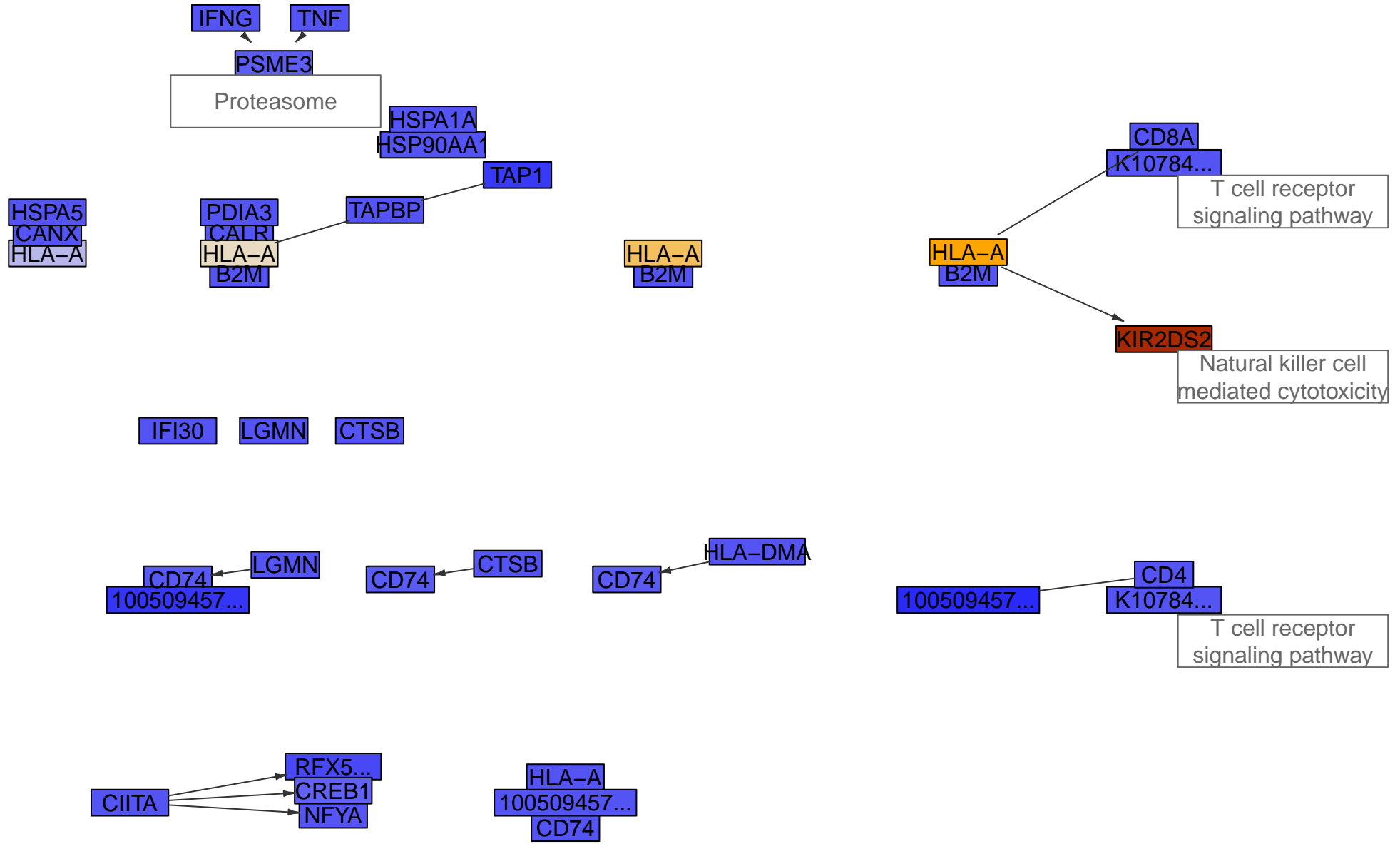
Antigen processing and presentation  
MPI-234



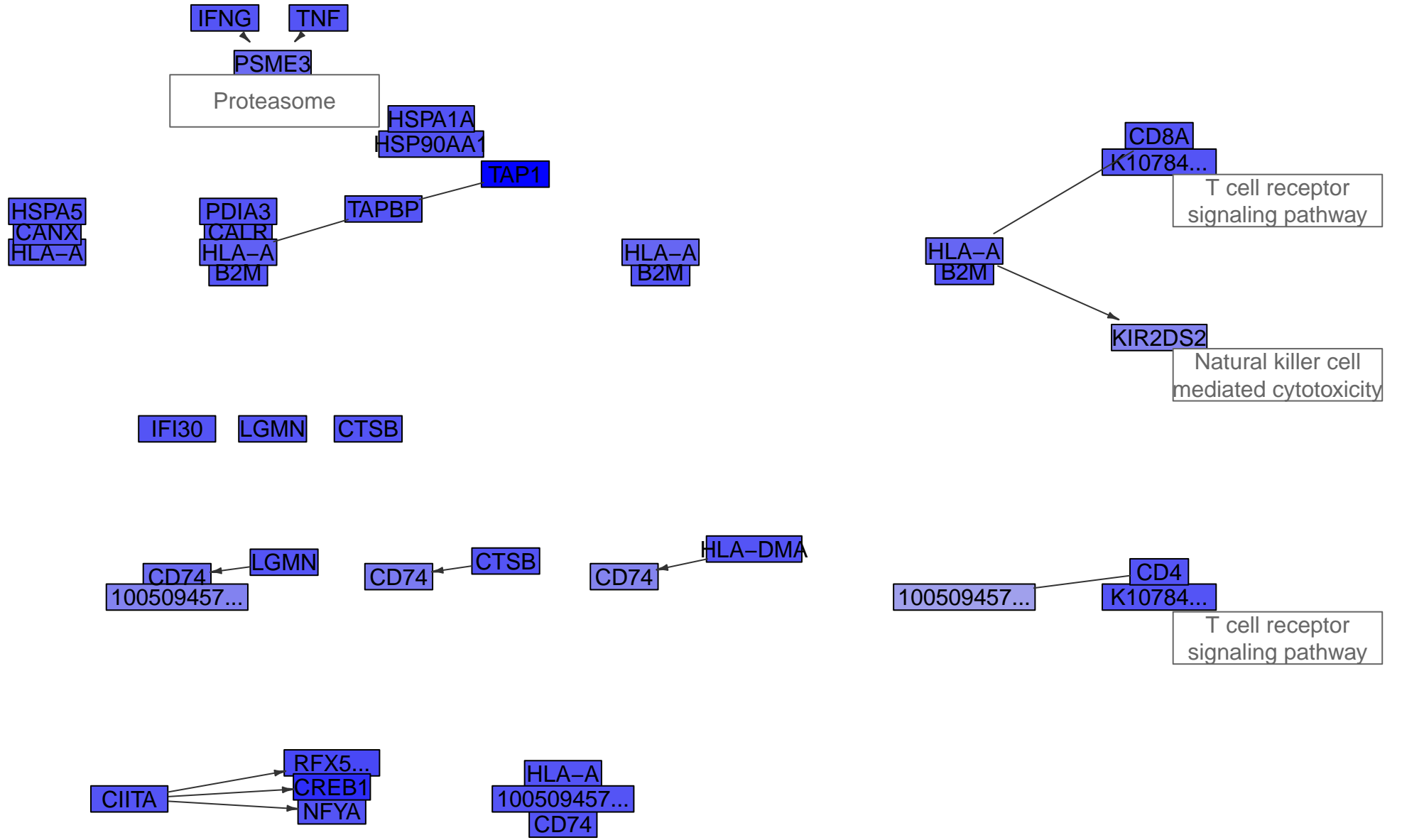
Antigen processing and presentation  
MPI-235



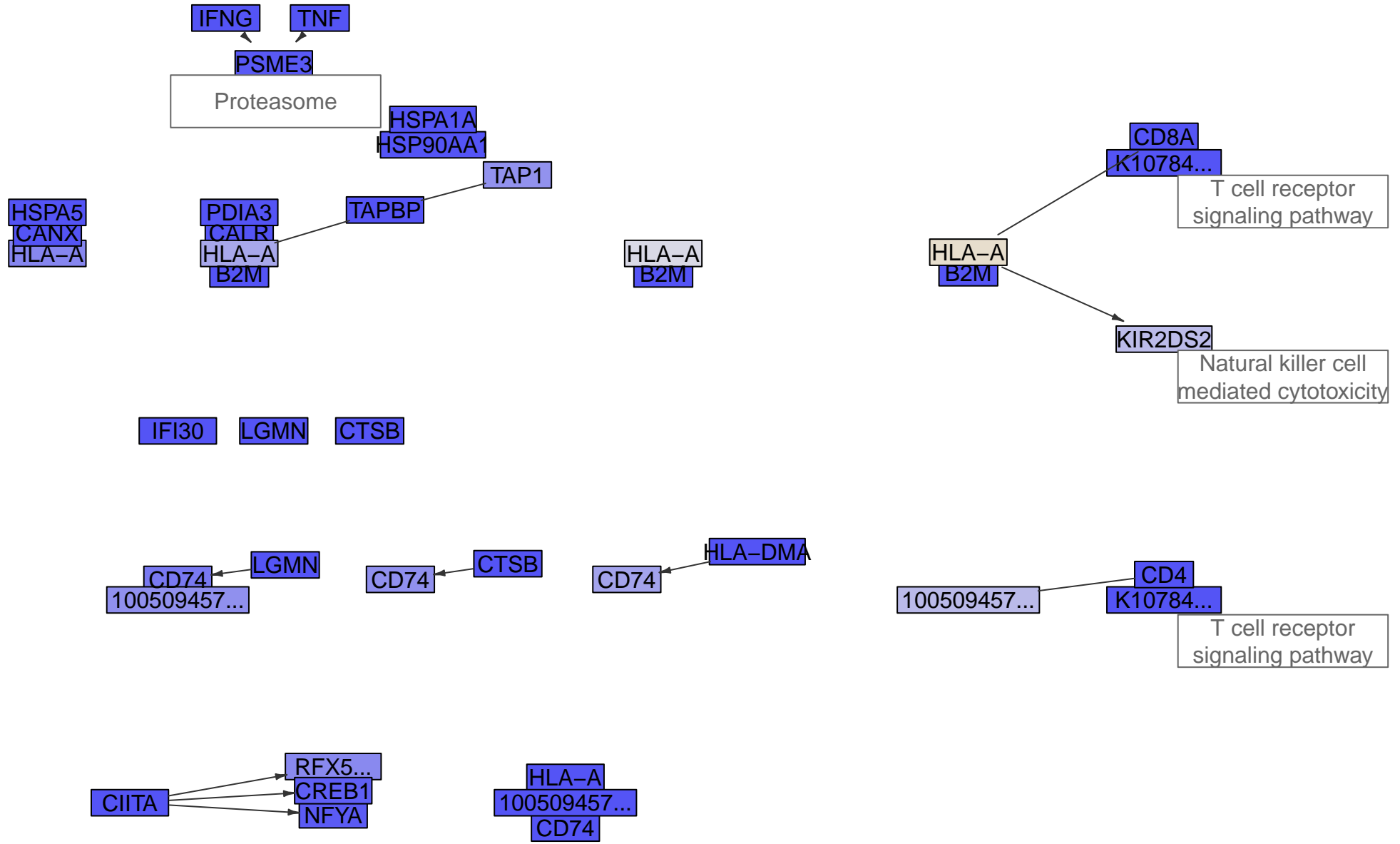
Antigen processing and presentation  
MPI-236



Antigen processing and presentation  
MPI-237

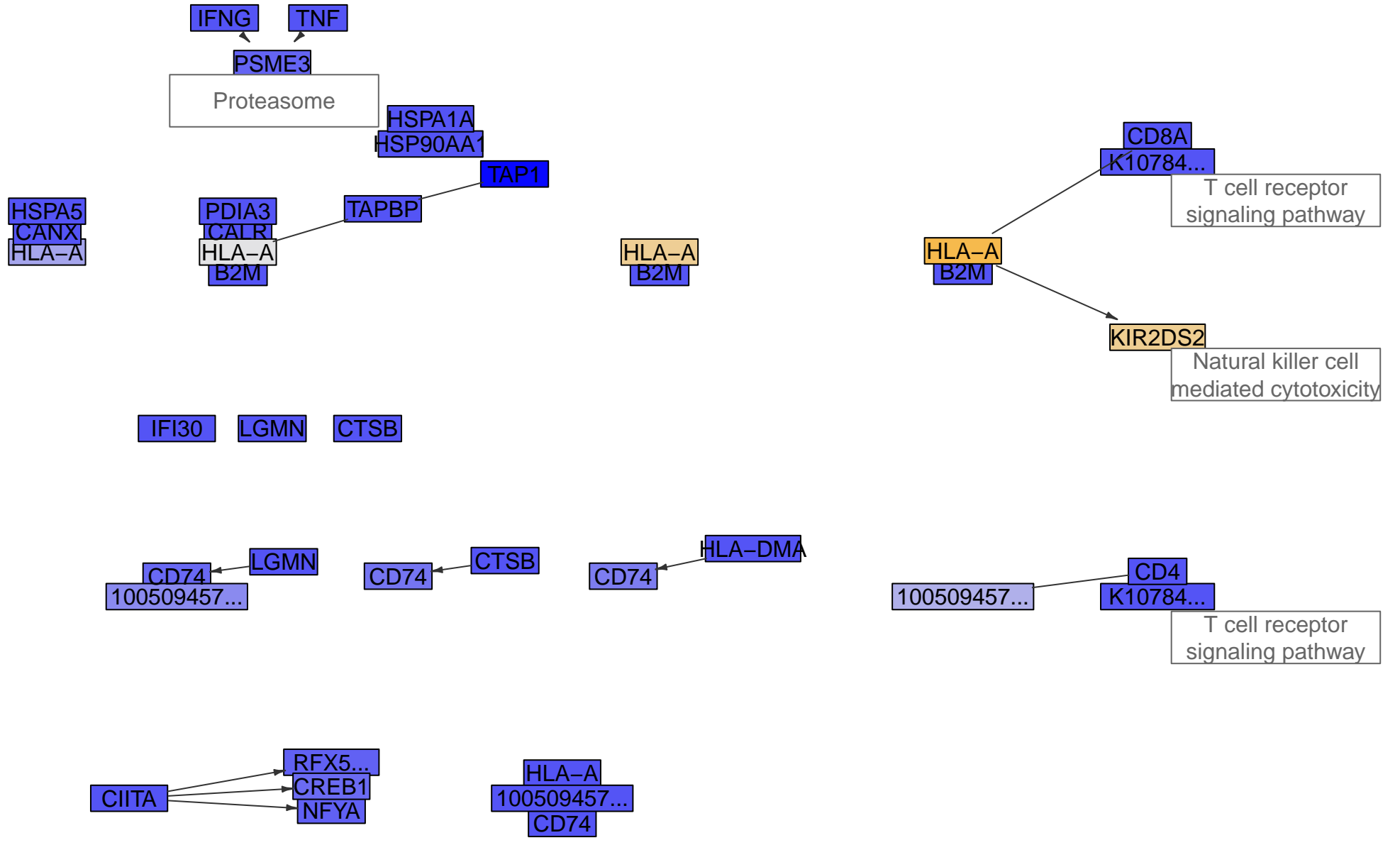


Antigen processing and presentation  
MPI-239

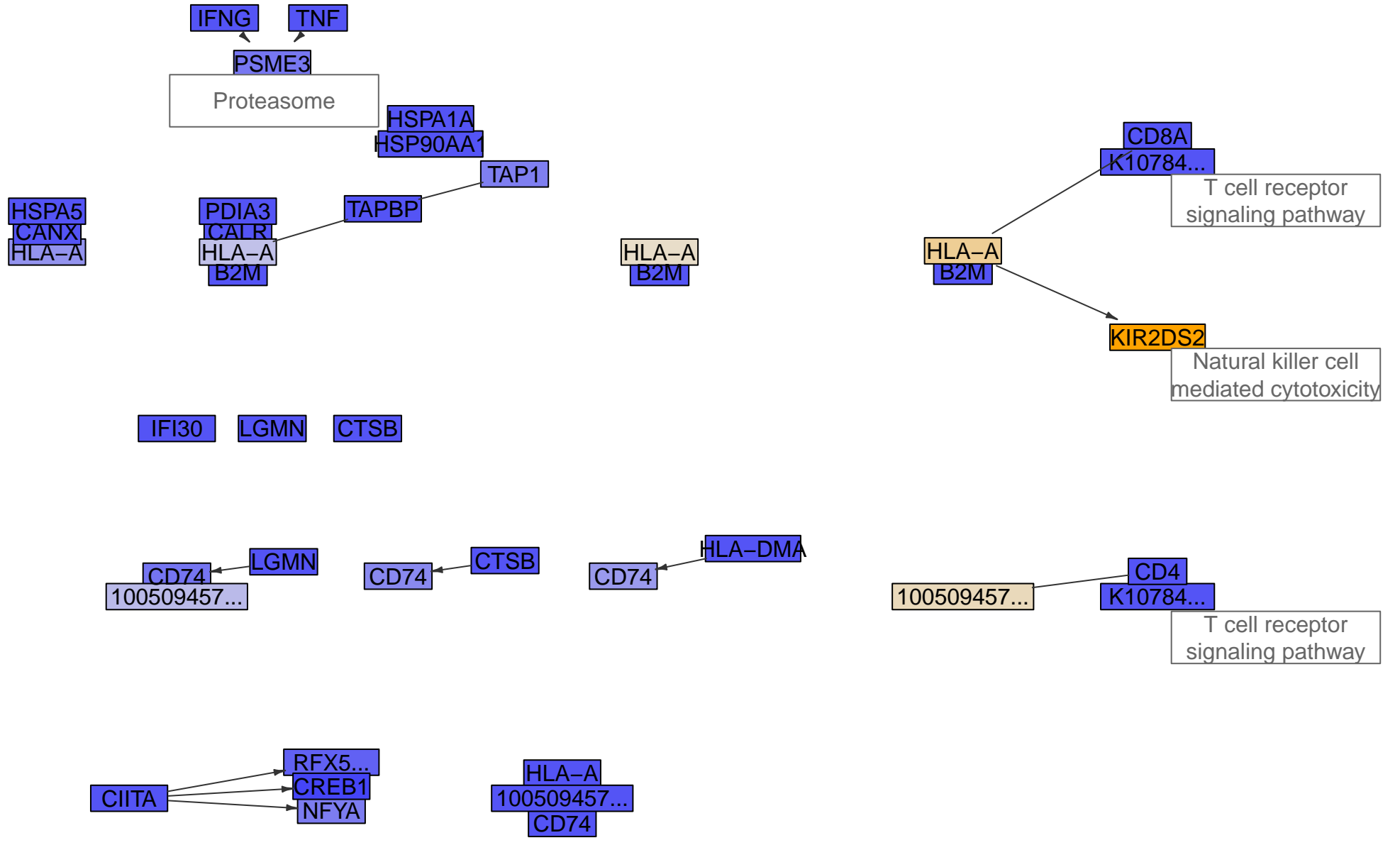




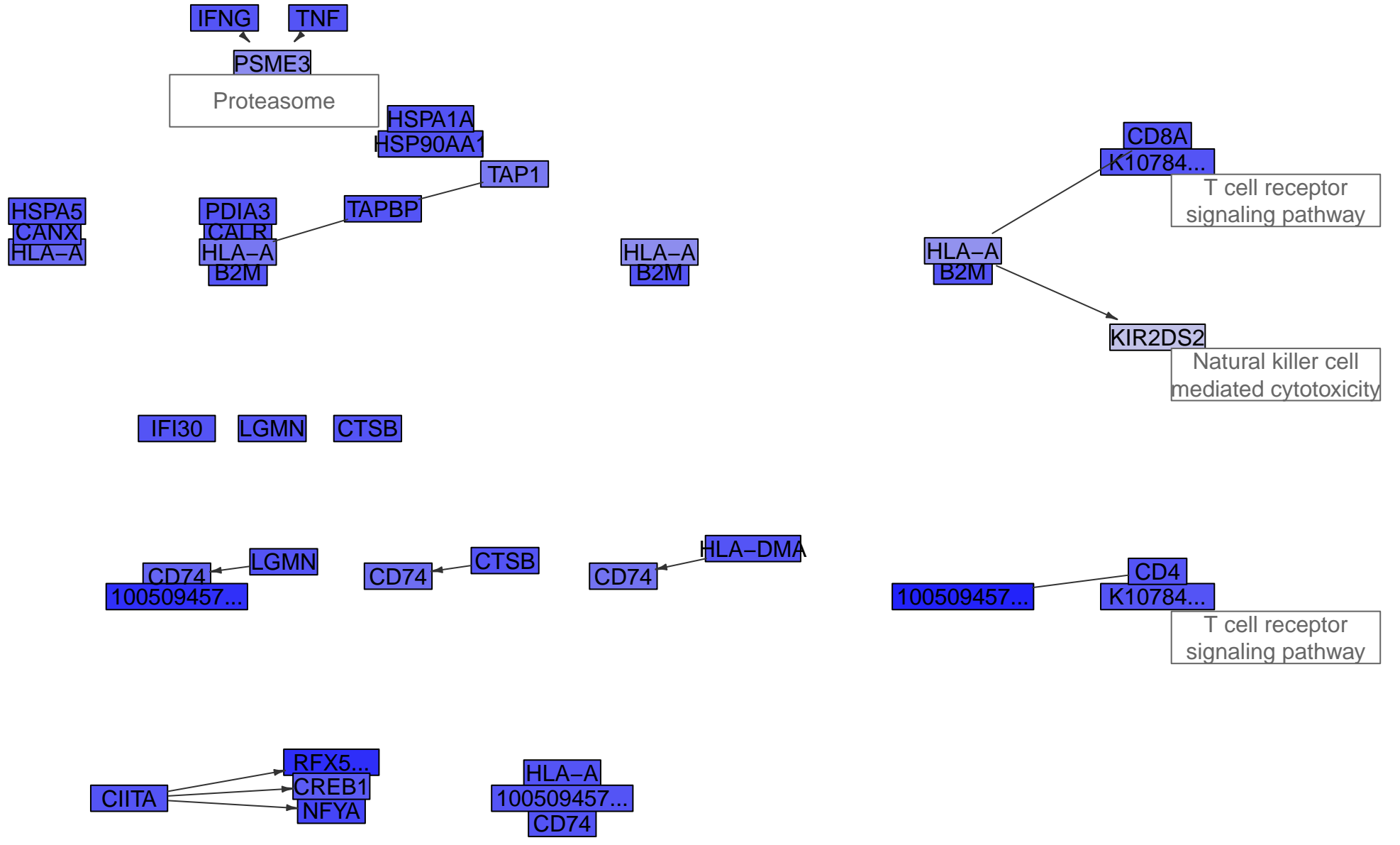
Antigen processing and presentation  
MPI-241



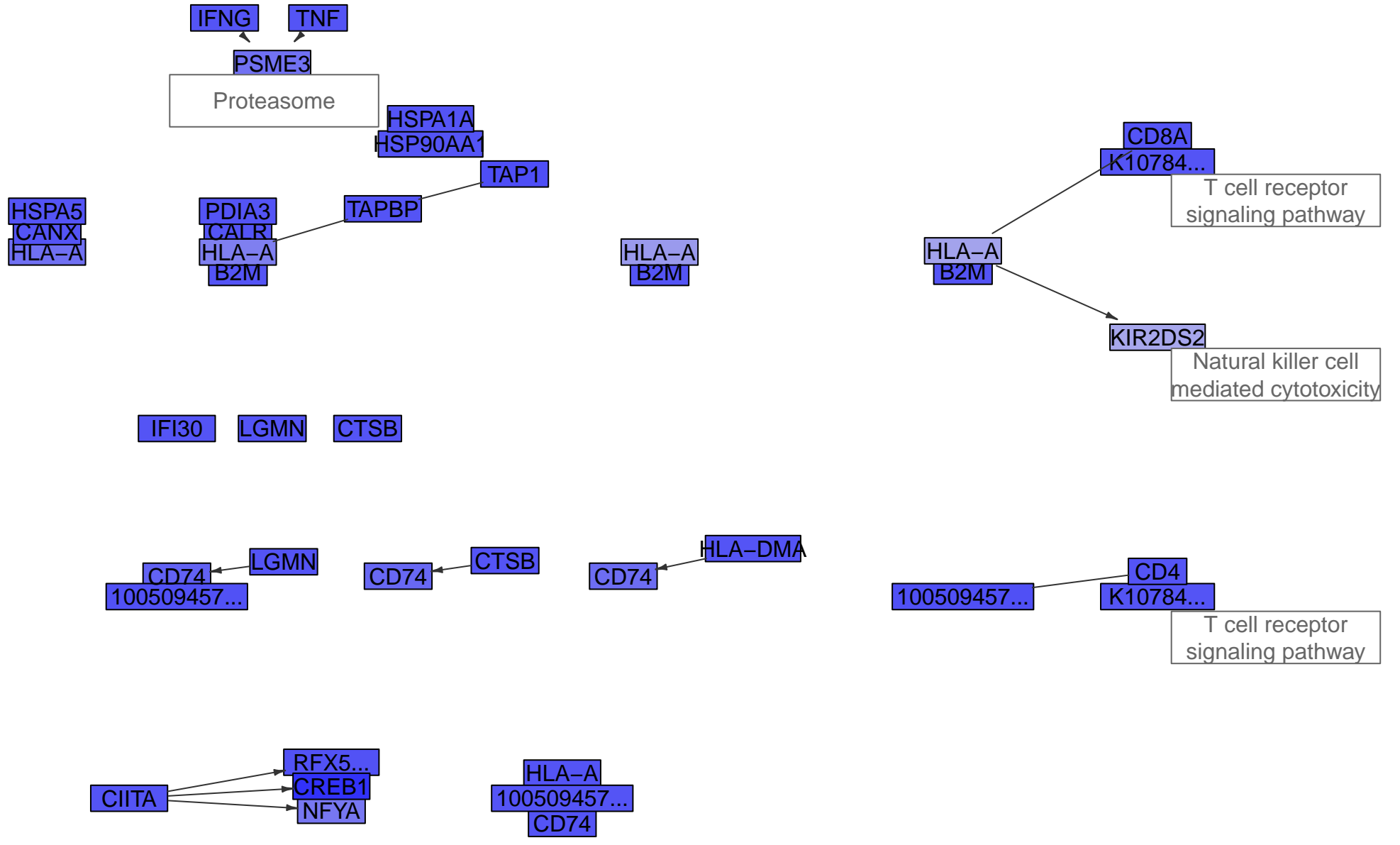
Antigen processing and presentation  
MPI-243



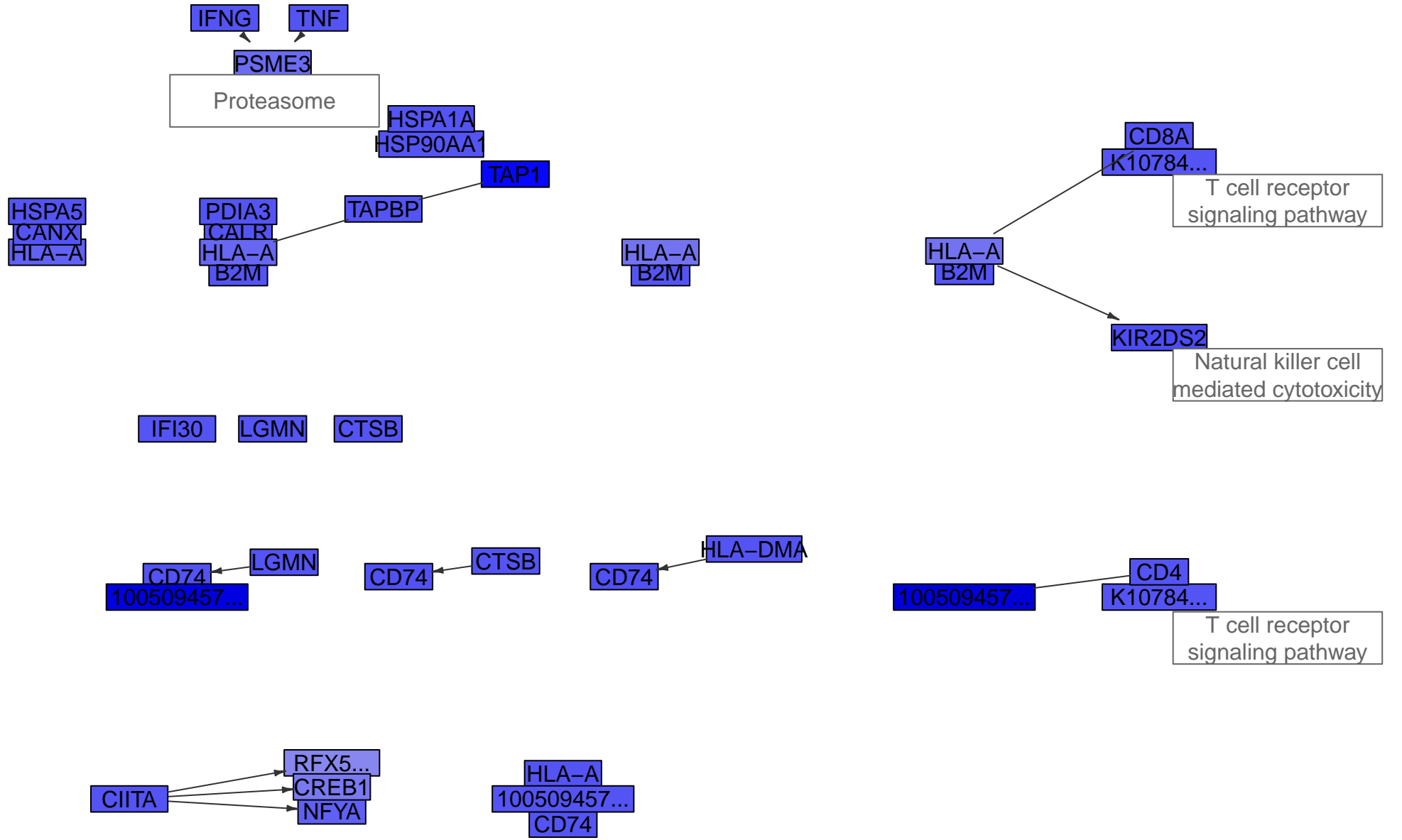
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MPI-244



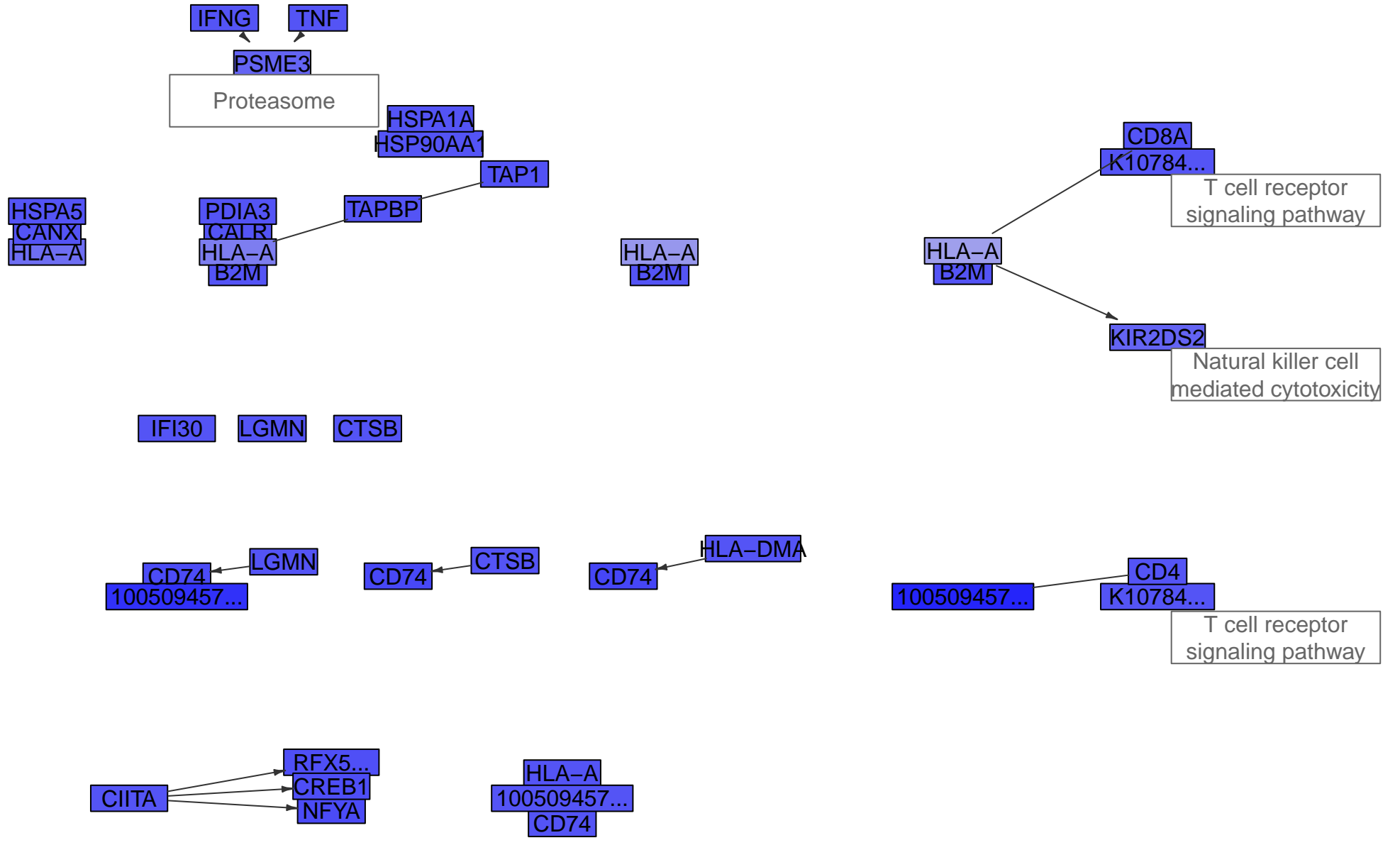
Antigen processing and presentation  
MPI-246



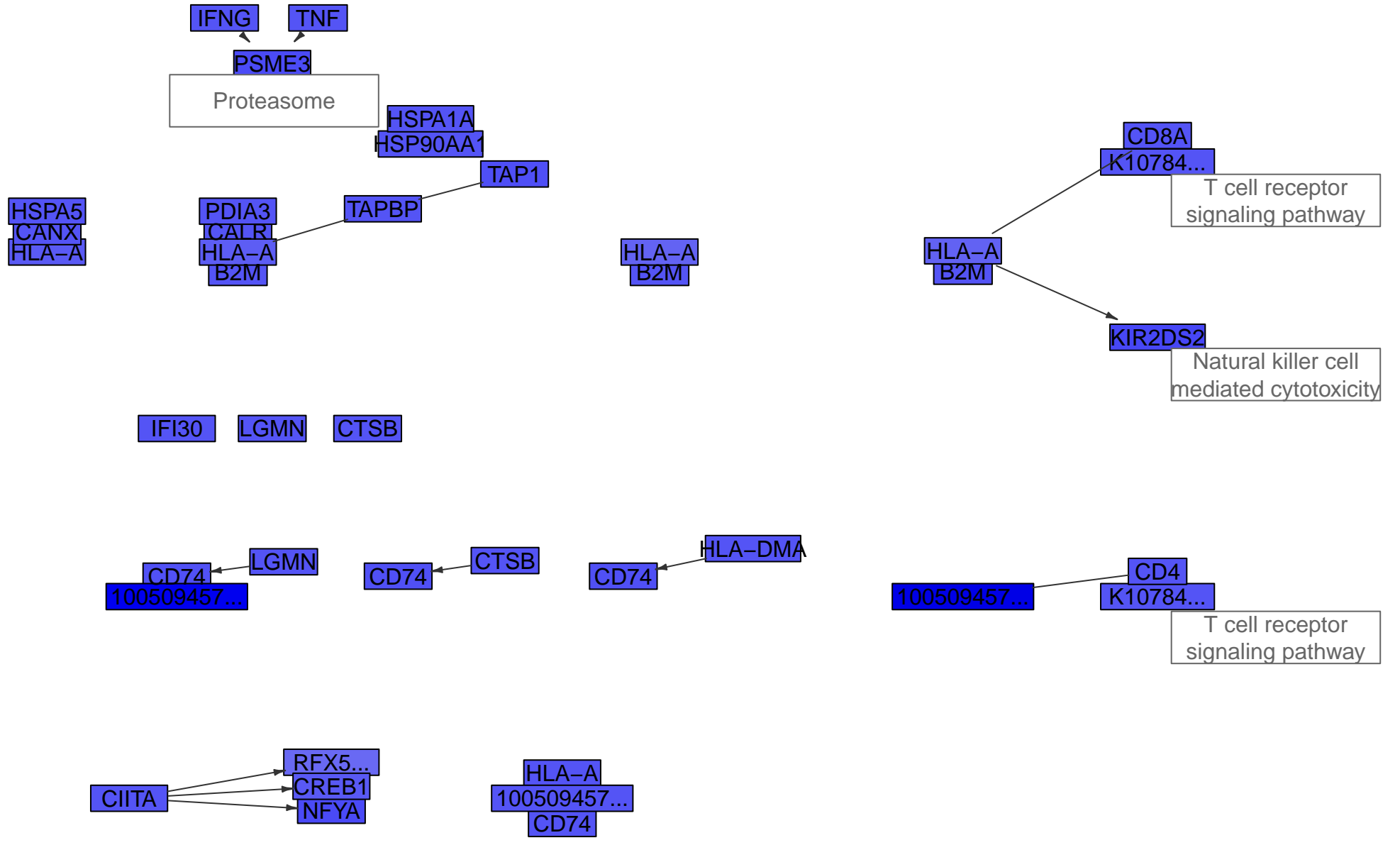
Antigen processing and presentation  
MPI-247



Antigen processing and presentation  
MPI-251



Antigen processing and presentation  
MPI-255



Antigen processing and presentation  
MPI-223b

