

The benchmark dataset for building the classifier to identify subcellular localizations of gram-negative proteins. 1392 proteins are classified into 8 categories, corresponding to 8 subcellular locations. Proteins, represented by UniProt IDs, under each subcellular location are listed as below.

### 1) Inner membrane

P76264 P17201 P0ABB4 P76169 P08550 P08848 P0AE14 Q9RPF3 P04124 P32129  
P56580 P02942 Q46909 P31064 P0AC41 P0AB12 P38055 P39196 P61380 P0AFN6  
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## **2) Cell outer membrane**

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P45357 Q04641 P0A908 O54339 Q57483 P76773 P0A0V8 P08008 P35823 P13980  
P0A940 P11910 P44601 P76045 A5F661 Q00595 P40710 P55127 Q02937 P31243  
P75780 P69856 P17778 P06971 P23988 Q08017 P07211

### 3) Cytoplasm

P0AGJ9 P42321 P0A944 P36662 P0ACC7 P74863 P0A9K1 Q02286 P06110 P14916  
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#### **4) Extracell**

Q9ZEU2 P61416 P37773 Q46669 Q99289 P20041 P33693 P74863 P35483 Q9RBS0  
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#### **5) Fimbrium**

P11900 P53508 P20862 P08180 P07111 P62607 P22595 P33781 P02970 P08191  
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P53522 P05788 P33406

#### **6) Flagellum**

P96786 Q9PHW6 Q03475 P58330 P22251 Q56827 Q56705 P96747 Q08860  
P02969 P16326 Q9R9R6

#### **7) Nucleoid**

P0ABT2 P33920 P22523 P36767 P60293 P36659 P0C093 P22524

#### **8) Periplasm**

P25718 P39185 P77214 P53052 P35483 P0A862 P11278 P31133 P72181 P05465  
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