### Platform sheet

**Phenomin**

<table>
<thead>
<tr>
<th>Localization</th>
<th>Institut Clinique de la Souris (ICS, Illkirch), Centre for Immunophenomics (CIPHE, Marseille)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Website</td>
<td><a href="http://www.phenomin.fr">http://www.phenomin.fr</a></td>
</tr>
<tr>
<td>Contacts</td>
<td><a href="mailto:contact@phenomin.fr">contact@phenomin.fr</a></td>
</tr>
<tr>
<td>Phone</td>
<td>-</td>
</tr>
</tbody>
</table>
| Organism(s)   | *Mus musculus*  
*Rattus norvegicus* |
| Applications  | • Any kind of mutations from knock-out to full length humanization in mouse  
• Knock-out, small knock-in and conditional knock-out in rats  
• Cell engineering  
• Derivation of ES cells from mutant mouse line  
• Molecular model validation  
• Colony expansion and cryopreservation  
• Phenotypic characterization  
• Preclinical studies |
| Technologies  | • CRISPR/Cas9 technology and/or ES-based methods  
• PCR, qPCR and digital PCR genotyping  
• Phenotyping platforms (behavior & cognition, cardiovascular, metabolism, immune-profiling, clinical chemistry & hematology, anatomo-pathology) |