

```
{ bionix  
  , inputs  
  , ref ? bionix.ref.grch38.seq}:  
  
let
```

```
  preprocess =  
    pipe [  
      (bwa.align { inherit ref; })  
      (samtools.fixmate {})  
      (samtools.sort {})  
      (samtools.markdup {})  
    ];
```

```
in platypus.call {} (map preprocess inputs);
```