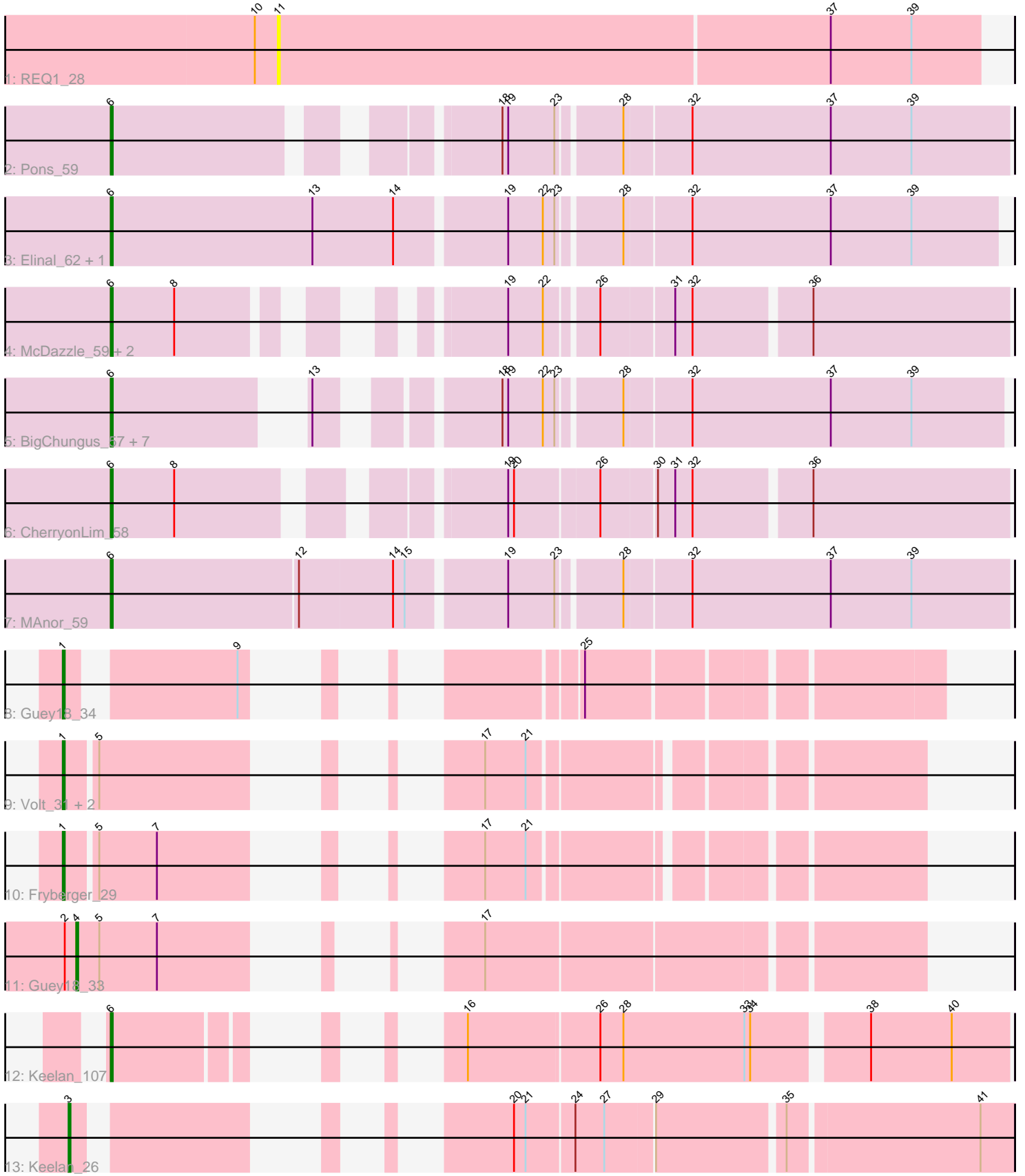


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 305269 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305269 has 25 members, 5 are drafts.

Phages represented in each track:

- Track 1 : REQ1\_28
- Track 2 : Pons\_59
- Track 3 : Elinal\_62, KayGee\_60
- Track 4 : McDazzle\_59, SheckWes\_61, ElJefes\_59
- Track 5 : BigChungus\_57, SummitAcademy\_57, Vine\_60, Yucky\_60, PotPie\_57, CocoaPuff\_57, Feastonyeet\_57, Balloona\_56
- Track 6 : CherryonLim\_58
- Track 7 : MAnor\_59
- Track 8 : Guey18\_34
- Track 9 : Volt\_31, Ronaldo\_32, Ziko\_32
- Track 10 : Fryberger\_29
- Track 11 : Guey18\_33
- Track 12 : Keelan\_107
- Track 13 : Keelan\_26

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 6, it was called in 13 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Balloona\_56, BigChungus\_57, CherryonLim\_58, CocoaPuff\_57, ElJefes\_59, Elinal\_62, Feastonyeet\_57, KayGee\_60, Keelan\_107, MAnor\_59, McDazzle\_59, Pons\_59, PotPie\_57, SheckWes\_61, SummitAcademy\_57, Vine\_60, Yucky\_60,

Genes that have the "Most Annotated" start but do not call it:

- 

Genes that do not have the "Most Annotated" start:

- Fryberger\_29, Guey18\_33, Guey18\_34, Keelan\_26, REQ1\_28, Ronaldo\_32, Volt\_31, Ziko\_32,

### **Summary by start number:**

Start 1:

- Found in 5 of 25 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 5 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger\_29 (DP), Guey18\_34 (DP), Ronaldo\_32 (DP), Volt\_31 (DP), Ziko\_32 (DP),

Start 3:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Keelan\_26 (DP),

Start 4:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Guey18\_33 (DP),

Start 6:

- Found in 17 of 25 ( 68.0% ) of genes in pham
- Manual Annotations of this start: 13 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Balloona\_56 (CT), BigChungus\_57 (CT), CherryonLim\_58 (CT), CocoaPuff\_57 (CT), ElJefes\_59 (CT), Elinal\_62 (CT), Feastonyeet\_57 (CT), KayGee\_60 (CT), Keelan\_107 (DP), MAnor\_59 (CT), McDazzle\_59 (CT), Pons\_59 (CT), PotPie\_57 (CT), SheckWes\_61 (CT), SummitAcademy\_57 (CT), Vine\_60 (CT), Yucky\_60 (CT),

Start 11:

- Found in 1 of 25 ( 4.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: REQ1\_28 (CF),

**Summary by clusters:**

There are 3 clusters represented in this pham: CF, DP, CT,

Info for manual annotations of cluster CT:

- Start number 6 was manually annotated 12 times for cluster CT.

Info for manual annotations of cluster DP:

- Start number 1 was manually annotated 5 times for cluster DP.
- Start number 3 was manually annotated 1 time for cluster DP.
- Start number 4 was manually annotated 1 time for cluster DP.
- Start number 6 was manually annotated 1 time for cluster DP.

**Gene Information:**

Gene: Balloona\_56 Start: 41140, Stop: 40739, Start Num: 6  
Candidate Starts for Balloona\_56:  
(Start: 6 @41140 has 13 MA's), (13, 41062), (18, 40990), (19, 40987), (22, 40969), (23, 40963), (28, 40933), (32, 40900), (37, 40828), (39, 40786),

Gene: BigChungus\_57 Start: 40681, Stop: 40280, Start Num: 6  
Candidate Starts for BigChungus\_57:  
(Start: 6 @40681 has 13 MA's), (13, 40603), (18, 40531), (19, 40528), (22, 40510), (23, 40504), (28, 40474), (32, 40441), (37, 40369), (39, 40327),

Gene: CherryonLim\_58 Start: 42157, Stop: 41738, Start Num: 6  
Candidate Starts for CherryonLim\_58:  
(Start: 6 @42157 has 13 MA's), (8, 42124), (19, 41986), (20, 41983), (26, 41941), (30, 41914), (31, 41905), (32, 41896), (36, 41839),

Gene: CocoaPuff\_57 Start: 40686, Stop: 40285, Start Num: 6  
Candidate Starts for CocoaPuff\_57:  
(Start: 6 @40686 has 13 MA's), (13, 40608), (18, 40536), (19, 40533), (22, 40515), (23, 40509), (28, 40479), (32, 40446), (37, 40374), (39, 40332),

Gene: ElJefes\_59 Start: 41219, Stop: 40824, Start Num: 6  
Candidate Starts for ElJefes\_59:  
(Start: 6 @41219 has 13 MA's), (8, 41186), (19, 41069), (22, 41051), (26, 41027), (31, 40991), (32, 40982), (36, 40925),

Gene: Elinal\_62 Start: 41462, Stop: 41016, Start Num: 6  
Candidate Starts for Elinal\_62:  
(Start: 6 @41462 has 13 MA's), (13, 41357), (14, 41315), (19, 41261), (22, 41243), (23, 41237), (28, 41207), (32, 41174), (37, 41102), (39, 41060),

Gene: Feastonyeet\_57 Start: 40681, Stop: 40280, Start Num: 6  
Candidate Starts for Feastonyeet\_57:  
(Start: 6 @40681 has 13 MA's), (13, 40603), (18, 40531), (19, 40528), (22, 40510), (23, 40504), (28, 40474), (32, 40441), (37, 40369), (39, 40327),

Gene: Fryberger\_29 Start: 8784, Stop: 8455, Start Num: 1  
Candidate Starts for Fryberger\_29:  
(Start: 1 @8784 has 5 MA's), (5, 8769), (7, 8739), (17, 8658), (21, 8637),

Gene: Guey18\_34 Start: 9973, Stop: 9644, Start Num: 1  
Candidate Starts for Guey18\_34:  
(Start: 1 @9973 has 5 MA's), (9, 9898), (25, 9814),

Gene: Guey18\_33 Start: 9651, Stop: 9316, Start Num: 4  
Candidate Starts for Guey18\_33:  
(2, 9657), (Start: 4 @9651 has 1 MA's), (5, 9639), (7, 9609), (17, 9531),

Gene: KayGee\_60 Start: 41462, Stop: 41016, Start Num: 6  
Candidate Starts for KayGee\_60:  
(Start: 6 @41462 has 13 MA's), (13, 41357), (14, 41315), (19, 41261), (22, 41243), (23, 41237), (28, 41207), (32, 41174), (37, 41102), (39, 41060),

Gene: Keelan\_107 Start: 53290, Stop: 53652, Start Num: 6

Candidate Starts for Keelan\_107:

(Start: 6 @53290 has 13 MA's), (16, 53383), (26, 53449), (28, 53461), (33, 53524), (34, 53527), (38, 53581), (40, 53623),

Gene: Keelan\_26 Start: 8252, Stop: 7875, Start Num: 3

Candidate Starts for Keelan\_26:

(Start: 3 @8252 has 1 MA's), (20, 8120), (21, 8114), (24, 8090), (27, 8075), (29, 8051), (35, 7988), (41, 7892),

Gene: MAnor\_59 Start: 41593, Stop: 41144, Start Num: 6

Candidate Starts for MAnor\_59:

(Start: 6 @41593 has 13 MA's), (12, 41497), (14, 41449), (15, 41443), (19, 41395), (23, 41371), (28, 41341), (32, 41308), (37, 41236), (39, 41194),

Gene: McDazzle\_59 Start: 41213, Stop: 40818, Start Num: 6

Candidate Starts for McDazzle\_59:

(Start: 6 @41213 has 13 MA's), (8, 41180), (19, 41063), (22, 41045), (26, 41021), (31, 40985), (32, 40976), (36, 40919),

Gene: Pons\_59 Start: 41198, Stop: 40776, Start Num: 6

Candidate Starts for Pons\_59:

(Start: 6 @41198 has 13 MA's), (18, 41030), (19, 41027), (23, 41003), (28, 40973), (32, 40940), (37, 40868), (39, 40826),

Gene: PotPie\_57 Start: 41716, Stop: 41315, Start Num: 6

Candidate Starts for PotPie\_57:

(Start: 6 @41716 has 13 MA's), (13, 41638), (18, 41566), (19, 41563), (22, 41545), (23, 41539), (28, 41509), (32, 41476), (37, 41404), (39, 41362),

Gene: REQ1\_28 Start: 11269, Stop: 11631, Start Num: 11

Candidate Starts for REQ1\_28:

(10, 11257), (11, 11269), (37, 11554), (39, 11596),

Gene: Ronaldo\_32 Start: 9713, Stop: 9384, Start Num: 1

Candidate Starts for Ronaldo\_32:

(Start: 1 @9713 has 5 MA's), (5, 9698), (17, 9587), (21, 9566),

Gene: SheckWes\_61 Start: 40759, Stop: 40364, Start Num: 6

Candidate Starts for SheckWes\_61:

(Start: 6 @40759 has 13 MA's), (8, 40726), (19, 40609), (22, 40591), (26, 40567), (31, 40531), (32, 40522), (36, 40465),

Gene: SummitAcademy\_57 Start: 40859, Stop: 40458, Start Num: 6

Candidate Starts for SummitAcademy\_57:

(Start: 6 @40859 has 13 MA's), (13, 40781), (18, 40709), (19, 40706), (22, 40688), (23, 40682), (28, 40652), (32, 40619), (37, 40547), (39, 40505),

Gene: Vine\_60 Start: 41482, Stop: 41081, Start Num: 6

Candidate Starts for Vine\_60:

(Start: 6 @41482 has 13 MA's), (13, 41404), (18, 41332), (19, 41329), (22, 41311), (23, 41305), (28, 41275), (32, 41242), (37, 41170), (39, 41128),

Gene: Volt\_31 Start: 9713, Stop: 9384, Start Num: 1

Candidate Starts for Volt\_31:

(Start: 1 @9713 has 5 MA's), (5, 9698), (17, 9587), (21, 9566),

Gene: Yucky\_60 Start: 41274, Stop: 40873, Start Num: 6

Candidate Starts for Yucky\_60:

(Start: 6 @41274 has 13 MA's), (13, 41196), (18, 41124), (19, 41121), (22, 41103), (23, 41097), (28, 41067), (32, 41034), (37, 40962), (39, 40920),

Gene: Ziko\_32 Start: 9653, Stop: 9324, Start Num: 1

Candidate Starts for Ziko\_32:

(Start: 1 @9653 has 5 MA's), (5, 9638), (17, 9527), (21, 9506),