

Pham 291636



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 291636 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291636 has 16 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Srilaccoli3\_62
- Track 2 : Reynauld\_68
- Track 3 : RobinSparkles\_72
- Track 4 : PatrickStar\_71, Gibbles\_68, Orchid\_70, Kampe\_71
- Track 5 : GordTnk2\_72
- Track 6 : Gmala1\_67
- Track 7 : GordDuk1\_71
- Track 8 : GMA3\_75
- Track 9 : Jumbo\_69
- Track 10 : Camerico\_75
- Track 11 : Min1\_01
- Track 12 : Trogglehumper\_82
- Track 13 : Mbo2\_72

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

The start number called the most often in the published annotations is 12, it was called in 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Gibbles\_68, Kampe\_71, Orchid\_70, PatrickStar\_71,

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

- RobinSparkles\_72,

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

- Camerico\_75, GMA3\_75, Gmala1\_67, GordDuk1\_71, GordTnk2\_72, Jumbo\_69, Mbo2\_72, Min1\_01, Reynauld\_68, Srilaccoli3\_62, Trogglehumper\_82,

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

Start 4:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 9

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Camerico\_75 (DF4),

Start 7:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trogglehumper\_82 (singleton),

Start 8:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RobinSparkles\_72 (CX),

Start 9:

- Found in 3 of 16 ( 18.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gmala1\_67 (DF1), GordDuk1\_71 (DF1), GordTnk2\_72 (DF1),

Start 10:

- Found in 5 of 16 ( 31.2% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA3\_75 (DF2), Jumbo\_69 (DF3), Mbo2\_72 (singleton), Reynauld\_68 (CH), Srilaccoli3\_62 (CH),

Start 12:

- Found in 5 of 16 ( 31.2% ) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Gibbles\_68 (CX), Kampe\_71 (CX), Orchid\_70 (CX), PatrickStar\_71 (CX),

Start 13:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Min1\_01 (singleton),

### **Summary by clusters:**

There are 7 clusters represented in this pham: singleton, CH, DF4, DF1, DF3, DF2, CX,

Info for manual annotations of cluster CH:

- Start number 10 was manually annotated 1 time for cluster CH.

Info for manual annotations of cluster CX:

- Start number 8 was manually annotated 1 time for cluster CX.
- Start number 12 was manually annotated 4 times for cluster CX.

Info for manual annotations of cluster DF3:

- Start number 10 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:

- Start number 4 was manually annotated 1 time for cluster DF4.

### **Gene Information:**

Gene: Camerico\_75 Start: 60592, Stop: 59744, Start Num: 4

Candidate Starts for Camerico\_75:

(Start: 4 @60592 has 1 MA's), (11, 60535), (15, 60466), (22, 60397), (41, 60232), (44, 60214), (45, 60208), (46, 60202), (56, 60085), (60, 60037), (64, 60013), (66, 59989), (87, 59755),

Gene: GMA3\_75 Start: 57620, Stop: 56823, Start Num: 10

Candidate Starts for GMA3\_75:

(Start: 10 @57620 has 2 MA's), (19, 57515), (31, 57422), (53, 57200), (60, 57119), (70, 57014), (71, 57008), (79, 56921), (81, 56915), (87, 56834),

Gene: Gibbles\_68 Start: 56757, Stop: 55996, Start Num: 12

Candidate Starts for Gibbles\_68:

(1, 56847), (5, 56817), (6, 56799), (Start: 12 @56757 has 4 MA's), (16, 56688), (28, 56586), (29, 56583), (38, 56499), (40, 56481), (43, 56460), (44, 56451), (47, 56433), (50, 56412), (55, 56331), (61, 56274), (74, 56142), (76, 56118), (80, 56091), (82, 56076), (85, 56040), (86, 56034), (87, 56007), (88, 56001),

Gene: Gmala1\_67 Start: 54450, Stop: 53653, Start Num: 9

Candidate Starts for Gmala1\_67:

(9, 54450), (22, 54309), (27, 54273), (51, 54057), (59, 53961), (62, 53940), (64, 53925), (71, 53838), (80, 53748), (87, 53664),

Gene: GordDuk1\_71 Start: 55008, Stop: 54211, Start Num: 9

Candidate Starts for GordDuk1\_71:

(9, 55008), (21, 54879), (22, 54867), (27, 54831), (51, 54615), (62, 54498), (64, 54483), (71, 54396), (80, 54306), (87, 54222),

Gene: GordTnk2\_72 Start: 55169, Stop: 54372, Start Num: 9

Candidate Starts for GordTnk2\_72:

(9, 55169), (22, 55028), (27, 54992), (51, 54776), (62, 54659), (64, 54644), (71, 54557), (80, 54467), (87, 54383),

Gene: Jumbo\_69 Start: 59172, Stop: 58372, Start Num: 10

Candidate Starts for Jumbo\_69:

(Start: 10 @59172 has 2 MA's), (42, 58866), (48, 58824), (52, 58764), (59, 58686), (65, 58626), (71, 58563), (76, 58500), (80, 58470), (83, 58440), (87, 58386),

Gene: Kampe\_71 Start: 57027, Stop: 56266, Start Num: 12

Candidate Starts for Kampe\_71:

(1, 57117), (5, 57087), (6, 57069), (Start: 12 @57027 has 4 MA's), (16, 56958), (28, 56856), (29, 56853), (38, 56769), (40, 56751), (43, 56730), (44, 56721), (47, 56703), (50, 56682), (55, 56601), (61, 56544), (74, 56412), (76, 56388), (80, 56361), (82, 56346), (85, 56310), (86, 56304), (87, 56277), (88, 56271),

Gene: Mbo2\_72 Start: 53083, Stop: 52283, Start Num: 10

Candidate Starts for Mbo2\_72:

(2, 53146), (Start: 10 @53083 has 2 MA's), (18, 52990), (20, 52960), (26, 52900), (35, 52843), (39, 52786), (43, 52753), (44, 52744), (49, 52714), (54, 52642), (63, 52558), (64, 52549), (67, 52522), (68, 52489), (73, 52444), (79, 52381), (81, 52375), (87, 52294),

Gene: Min1\_01 Start: 771, Stop: 1, Start Num: 13

Candidate Starts for Min1\_01:

(13, 771), (14, 750), (23, 669), (32, 612), (33, 606), (34, 582), (58, 318), (61, 294), (67, 252), (69, 210), (72, 183), (77, 129),

Gene: Orchid\_70 Start: 57028, Stop: 56267, Start Num: 12

Candidate Starts for Orchid\_70:

(1, 57118), (5, 57088), (6, 57070), (Start: 12 @57028 has 4 MA's), (16, 56959), (28, 56857), (29, 56854), (38, 56770), (40, 56752), (43, 56731), (44, 56722), (47, 56704), (50, 56683), (55, 56602), (61, 56545), (74, 56413), (76, 56389), (80, 56362), (82, 56347), (85, 56311), (86, 56305), (87, 56278), (88, 56272),

Gene: PatrickStar\_71 Start: 57027, Stop: 56266, Start Num: 12

Candidate Starts for PatrickStar\_71:

(1, 57117), (5, 57087), (6, 57069), (Start: 12 @57027 has 4 MA's), (16, 56958), (28, 56856), (29, 56853), (38, 56769), (40, 56751), (43, 56730), (44, 56721), (47, 56703), (50, 56682), (55, 56601), (61, 56544), (74, 56412), (76, 56388), (80, 56361), (82, 56346), (85, 56310), (86, 56304), (87, 56277), (88, 56271),

Gene: Reynauld\_68 Start: 57456, Stop: 56647, Start Num: 10

Candidate Starts for Reynauld\_68:

(Start: 10 @57456 has 2 MA's), (18, 57366), (20, 57336), (36, 57210), (37, 57171), (48, 57093), (53, 57018), (56, 56985), (57, 56964), (64, 56916), (79, 56745), (81, 56739), (87, 56658),

Gene: RobinSparkles\_72 Start: 56946, Stop: 56164, Start Num: 8

Candidate Starts for RobinSparkles\_72:

(Start: 8 @56946 has 1 MA's), (Start: 12 @56925 has 4 MA's), (16, 56856), (28, 56754), (29, 56751), (38, 56667), (40, 56649), (43, 56628), (44, 56619), (47, 56601), (50, 56580), (55, 56499), (61, 56442), (74, 56310), (76, 56286), (80, 56259), (82, 56244), (85, 56208), (86, 56202), (87, 56175), (88, 56169),

Gene: Srilaccoli3\_62 Start: 56496, Stop: 55675, Start Num: 10

Candidate Starts for Srilaccoli3\_62:

(Start: 10 @56496 has 2 MA's), (18, 56406), (22, 56340), (48, 56124), (53, 56049), (56, 56016), (58, 55986), (64, 55944), (67, 55917), (70, 55869), (76, 55797), (79, 55773), (81, 55767), (84, 55737), (87, 55686),

Gene: Trogglehumper\_82 Start: 64380, Stop: 63535, Start Num: 7

Candidate Starts for Trogglehumper\_82:

(3, 64422), (Start: 7 @64380 has 1 MA's), (17, 64272), (24, 64185), (25, 64179), (30, 64155), (41, 64032), (44, 64014), (50, 63975), (58, 63855), (59, 63849), (64, 63813), (72, 63711), (75, 63666), (78, 63639), (80, 63633),