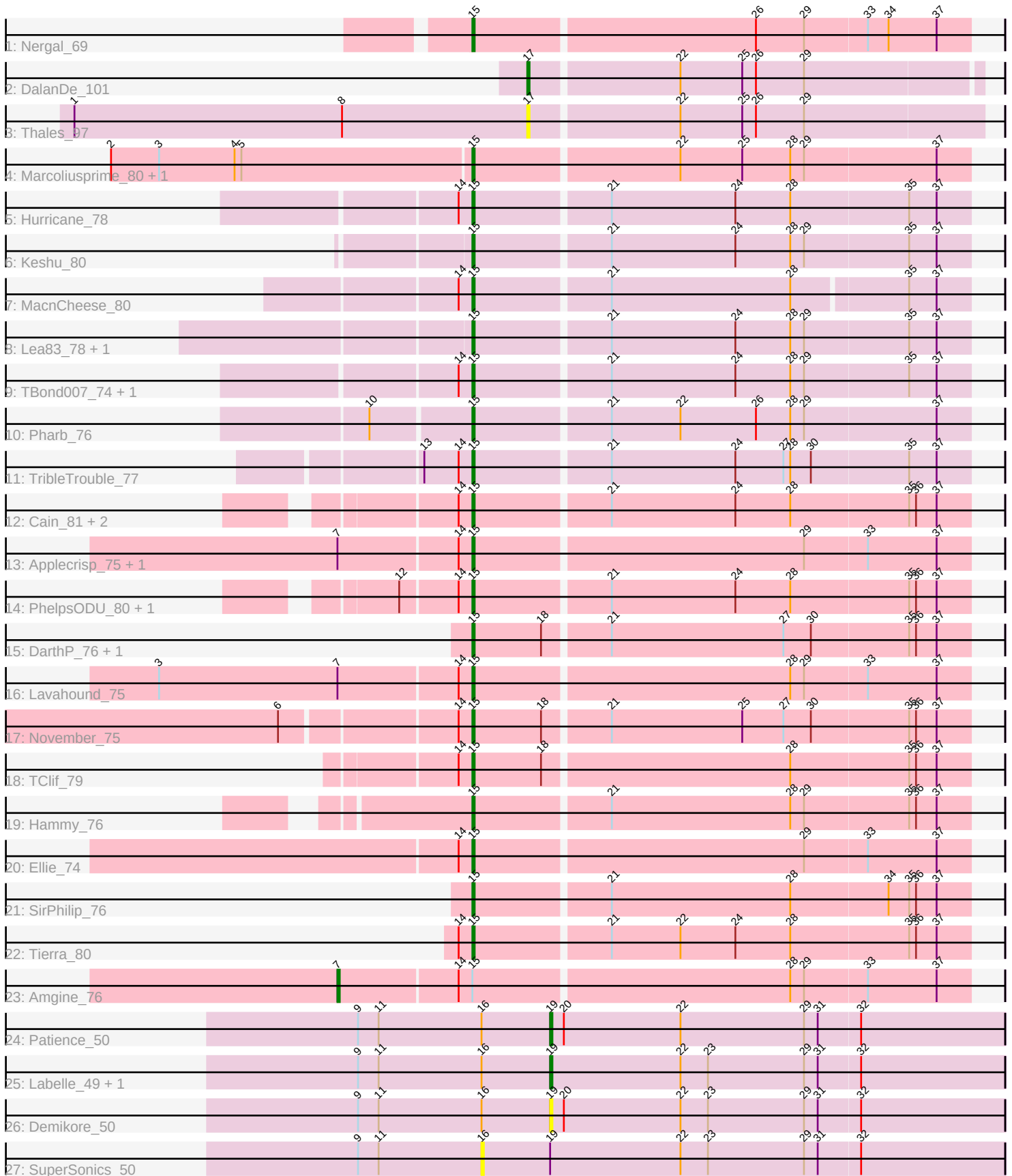


Pham 331051



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 331051 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331051 has 36 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Nergal_69
- Track 2 : DalanDe_101
- Track 3 : Thales_97
- Track 4 : Marcoliusprime_80, DismalStressor_81
- Track 5 : Hurricane_78
- Track 6 : Keshu_80
- Track 7 : MacnCheese_80
- Track 8 : Lea83_78, ShedlockHolmes_80
- Track 9 : TBond007_74, Pixie_77
- Track 10 : Pharb_76
- Track 11 : TribbleTrouble_77
- Track 12 : Cain_81, Bryler_81, Phrank_81
- Track 13 : Applecrisp_75, Fefferhead_77
- Track 14 : PhelpsODU_80, Unicorn_80
- Track 15 : DarthP_76, Amohnition_76
- Track 16 : Lavahound_75
- Track 17 : November_75
- Track 18 : TClif_79
- Track 19 : Hammy_76
- Track 20 : Ellie_74
- Track 21 : SirPhilip_76
- Track 22 : Tierra_80
- Track 23 : Amgine_76
- Track 24 : Patience_50
- Track 25 : Labelle_49, Madruga_48
- Track 26 : Demikore_50
- Track 27 : SuperSonics_50

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

The start number called the most often in the published annotations is 15, it was called in 28 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amohnition_76, Applecrisp_75, Bryler_81, Cain_81, DarthP_76, DismalStressor_81, Ellie_74, Fefferhead_77, Hammy_76, Hurricane_78, Keshu_80, Lavahound_75, Lea83_78, MacnCheese_80, Marcoliusprime_80, Nergal_69, November_75, Pharb_76, PhelpsODU_80, Phrank_81, Pixie_77, ShedlockHolmes_80, SirPhilip_76, TBond007_74, TClif_79, Tierra_80, TribbleTrouble_77, Unicorn_80,

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

- Amgine_76,

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

- DalanDe_101, Demikore_50, Labelle_49, Madrugua_48, Patience_50, SuperSonics_50, Thales_97,

Summary by start number:

Start 7:

- Found in 4 of 36 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Amgine_76 (K6),

Start 15:

- Found in 29 of 36 (80.6%) of genes in pham
- Manual Annotations of this start: 28 of 33
- Called 96.6% of time when present
- Phage (with cluster) where this start called: Amohnition_76 (K6), Applecrisp_75 (K6), Bryler_81 (K6), Cain_81 (K6), DarthP_76 (K6), DismalStressor_81 (K2), Ellie_74 (K6), Fefferhead_77 (K6), Hammy_76 (K6), Hurricane_78 (K3), Keshu_80 (K3), Lavahound_75 (K6), Lea83_78 (K3), MacnCheese_80 (K3), Marcoliusprime_80 (K2), Nergal_69 (AG), November_75 (K6), Pharb_76 (K3), PhelpsODU_80 (K6), Phrank_81 (K6), Pixie_77 (K3), ShedlockHolmes_80 (K3), SirPhilip_76 (K6), TBond007_74 (K3), TClif_79 (K6), Tierra_80 (K6), TribbleTrouble_77 (K3), Unicorn_80 (K6),

Start 16:

- Found in 5 of 36 (13.9%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: SuperSonics_50 (U),

Start 17:

- Found in 2 of 36 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DalanDe_101 (DQ), Thales_97 (DQ),

Start 19:

- Found in 5 of 36 (13.9%) of genes in pham
- Manual Annotations of this start: 3 of 33
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Demikore_50 (U), Labelle_49 (U), Madrugua_48 (U), Patience_50 (U),

Summary by clusters:

There are 6 clusters represented in this pham: AG, K3, K2, U, K6, DQ,

Info for manual annotations of cluster AG:

- Start number 15 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster DQ:

- Start number 17 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster K2:

- Start number 15 was manually annotated 2 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 15 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 7 was manually annotated 1 time for cluster K6.
- Start number 15 was manually annotated 16 times for cluster K6.

Info for manual annotations of cluster U:

- Start number 19 was manually annotated 3 times for cluster U.

Gene Information:

Gene: Amgine_76 Start: 51678, Stop: 51947, Start Num: 7

Candidate Starts for Amgine_76:

(Start: 7 @51678 has 1 MA's), (14, 51729), (Start: 15 @51735 has 28 MA's), (28, 51870), (29, 51876), (33, 51903), (37, 51933),

Gene: Amohnition_76 Start: 51628, Stop: 51840, Start Num: 15

Candidate Starts for Amohnition_76:

(Start: 15 @51628 has 28 MA's), (18, 51658), (21, 51685), (27, 51760), (30, 51772), (35, 51814), (36, 51817), (37, 51826),

Gene: Applecrisp_75 Start: 51177, Stop: 51389, Start Num: 15

Candidate Starts for Applecrisp_75:

(Start: 7 @51120 has 1 MA's), (14, 51171), (Start: 15 @51177 has 28 MA's), (29, 51318), (33, 51345), (37, 51375),

Gene: Bryler_81 Start: 50668, Stop: 50880, Start Num: 15

Candidate Starts for Bryler_81:

(14, 50662), (Start: 15 @50668 has 28 MA's), (21, 50725), (24, 50779), (28, 50803), (35, 50854), (36, 50857), (37, 50866),

Gene: Cain_81 Start: 50656, Stop: 50868, Start Num: 15

Candidate Starts for Cain_81:

(14, 50650), (Start: 15 @50656 has 28 MA's), (21, 50713), (24, 50767), (28, 50791), (35, 50842), (36, 50845), (37, 50854),

Gene: DalanDe_101 Start: 79925, Stop: 79734, Start Num: 17

Candidate Starts for DalanDe_101:

(Start: 17 @79925 has 1 MA's), (22, 79862), (25, 79835), (26, 79829), (29, 79808),

Gene: DARTH_P_76 Start: 51481, Stop: 51693, Start Num: 15

Candidate Starts for DARTH_P_76:

(Start: 15 @51481 has 28 MA's), (18, 51511), (21, 51538), (27, 51613), (30, 51625), (35, 51667), (36, 51670), (37, 51679),

Gene: Demikore_50 Start: 39689, Stop: 39886, Start Num: 19

Candidate Starts for Demikore_50:

(9, 39605), (11, 39614), (16, 39659), (Start: 19 @39689 has 3 MA's), (20, 39695), (22, 39746), (23, 39758), (29, 39800), (31, 39806), (32, 39824),

Gene: DismalStressor_81 Start: 53059, Stop: 53271, Start Num: 15

Candidate Starts for DismalStressor_81:

(2, 52903), (3, 52924), (4, 52957), (5, 52960), (Start: 15 @53059 has 28 MA's), (22, 53146), (25, 53173), (28, 53194), (29, 53200), (37, 53257),

Gene: Ellie_74 Start: 50904, Stop: 51116, Start Num: 15

Candidate Starts for Ellie_74:

(14, 50898), (Start: 15 @50904 has 28 MA's), (29, 51045), (33, 51072), (37, 51102),

Gene: Fefferhead_77 Start: 50965, Stop: 51177, Start Num: 15

Candidate Starts for Fefferhead_77:

(Start: 7 @50908 has 1 MA's), (14, 50959), (Start: 15 @50965 has 28 MA's), (29, 51106), (33, 51133), (37, 51163),

Gene: Hammy_76 Start: 51468, Stop: 51680, Start Num: 15

Candidate Starts for Hammy_76:

(Start: 15 @51468 has 28 MA's), (21, 51525), (28, 51603), (29, 51609), (35, 51654), (36, 51657), (37, 51666),

Gene: Hurricane_78 Start: 51017, Stop: 51229, Start Num: 15

Candidate Starts for Hurricane_78:

(14, 51011), (Start: 15 @51017 has 28 MA's), (21, 51074), (24, 51128), (28, 51152), (35, 51203), (37, 51215),

Gene: Keshu_80 Start: 51207, Stop: 51419, Start Num: 15

Candidate Starts for Keshu_80:

(Start: 15 @51207 has 28 MA's), (21, 51264), (24, 51318), (28, 51342), (29, 51348), (35, 51393), (37, 51405),

Gene: Labelle_49 Start: 39688, Stop: 39885, Start Num: 19

Candidate Starts for Labelle_49:

(9, 39604), (11, 39613), (16, 39658), (Start: 19 @39688 has 3 MA's), (22, 39745), (23, 39757), (29, 39799), (31, 39805), (32, 39823),

Gene: Lavahound_75 Start: 51869, Stop: 52081, Start Num: 15

Candidate Starts for Lavahound_75:

(3, 51734), (Start: 7 @51812 has 1 MA's), (14, 51863), (Start: 15 @51869 has 28 MA's), (28, 52004), (29, 52010), (33, 52037), (37, 52067),

Gene: Lea83_78 Start: 51108, Stop: 51320, Start Num: 15

Candidate Starts for Lea83_78:

(Start: 15 @51108 has 28 MA's), (21, 51165), (24, 51219), (28, 51243), (29, 51249), (35, 51294), (37, 51306),

Gene: MacnCheese_80 Start: 51630, Stop: 51839, Start Num: 15

Candidate Starts for MacnCheese_80:

(14, 51624), (Start: 15 @51630 has 28 MA's), (21, 51687), (28, 51765), (35, 51813), (37, 51825),

Gene: Madruga_48 Start: 39341, Stop: 39538, Start Num: 19

Candidate Starts for Madruga_48:

(9, 39257), (11, 39266), (16, 39311), (Start: 19 @39341 has 3 MA's), (22, 39398), (23, 39410), (29, 39452), (31, 39458), (32, 39476),

Gene: Marcoliusprime_80 Start: 53059, Stop: 53271, Start Num: 15

Candidate Starts for Marcoliusprime_80:

(2, 52903), (3, 52924), (4, 52957), (5, 52960), (Start: 15 @53059 has 28 MA's), (22, 53146), (25, 53173), (28, 53194), (29, 53200), (37, 53257),

Gene: Nergal_69 Start: 47627, Stop: 47839, Start Num: 15

Candidate Starts for Nergal_69:

(Start: 15 @47627 has 28 MA's), (26, 47747), (29, 47768), (33, 47795), (34, 47804), (37, 47825),

Gene: November_75 Start: 51285, Stop: 51497, Start Num: 15

Candidate Starts for November_75:

(6, 51207), (14, 51279), (Start: 15 @51285 has 28 MA's), (18, 51315), (21, 51342), (25, 51399), (27, 51417), (30, 51429), (35, 51471), (36, 51474), (37, 51483),

Gene: Patience_50 Start: 40236, Stop: 40433, Start Num: 19

Candidate Starts for Patience_50:

(9, 40152), (11, 40161), (16, 40206), (Start: 19 @40236 has 3 MA's), (20, 40242), (22, 40293), (29, 40347), (31, 40353), (32, 40371),

Gene: Pharb_76 Start: 50297, Stop: 50509, Start Num: 15

Candidate Starts for Pharb_76:

(10, 50255), (Start: 15 @50297 has 28 MA's), (21, 50354), (22, 50384), (26, 50417), (28, 50432), (29, 50438), (37, 50495),

Gene: PhelpsODU_80 Start: 50783, Stop: 50995, Start Num: 15

Candidate Starts for PhelpsODU_80:

(12, 50753), (14, 50777), (Start: 15 @50783 has 28 MA's), (21, 50840), (24, 50894), (28, 50918), (35, 50969), (36, 50972), (37, 50981),

Gene: Phrank_81 Start: 50643, Stop: 50855, Start Num: 15

Candidate Starts for Phrank_81:

(14, 50637), (Start: 15 @50643 has 28 MA's), (21, 50700), (24, 50754), (28, 50778), (35, 50829), (36, 50832), (37, 50841),

Gene: Pixie_77 Start: 50595, Stop: 50807, Start Num: 15

Candidate Starts for Pixie_77:

(14, 50589), (Start: 15 @50595 has 28 MA's), (21, 50652), (24, 50706), (28, 50730), (29, 50736), (35, 50781), (37, 50793),

Gene: ShedlockHolmes_80 Start: 51112, Stop: 51324, Start Num: 15

Candidate Starts for ShedlockHolmes_80:

(Start: 15 @51112 has 28 MA's), (21, 51169), (24, 51223), (28, 51247), (29, 51253), (35, 51298), (37, 51310),

Gene: SirPhilip_76 Start: 51179, Stop: 51391, Start Num: 15

Candidate Starts for SirPhilip_76:

(Start: 15 @51179 has 28 MA's), (21, 51236), (28, 51314), (34, 51356), (35, 51365), (36, 51368), (37, 51377),

Gene: SuperSonics_50 Start: 39382, Stop: 39609, Start Num: 16

Candidate Starts for SuperSonics_50:

(9, 39328), (11, 39337), (16, 39382), (Start: 19 @39412 has 3 MA's), (22, 39469), (23, 39481), (29, 39523), (31, 39529), (32, 39547),

Gene: TBond007_74 Start: 50594, Stop: 50806, Start Num: 15

Candidate Starts for TBond007_74:

(14, 50588), (Start: 15 @50594 has 28 MA's), (21, 50651), (24, 50705), (28, 50729), (29, 50735), (35, 50780), (37, 50792),

Gene: TClif_79 Start: 50907, Stop: 51119, Start Num: 15

Candidate Starts for TClif_79:

(14, 50901), (Start: 15 @50907 has 28 MA's), (18, 50937), (28, 51042), (35, 51093), (36, 51096), (37, 51105),

Gene: Thales_97 Start: 78175, Stop: 77981, Start Num: 17

Candidate Starts for Thales_97:

(1, 78373), (8, 78256), (Start: 17 @78175 has 1 MA's), (22, 78112), (25, 78085), (26, 78079), (29, 78058),

Gene: Tierra_80 Start: 51070, Stop: 51282, Start Num: 15

Candidate Starts for Tierra_80:

(14, 51064), (Start: 15 @51070 has 28 MA's), (21, 51127), (22, 51157), (24, 51181), (28, 51205), (35, 51256), (36, 51259), (37, 51268),

Gene: TribelTrouble_77 Start: 50865, Stop: 51077, Start Num: 15

Candidate Starts for TribelTrouble_77:

(13, 50844), (14, 50859), (Start: 15 @50865 has 28 MA's), (21, 50922), (24, 50976), (27, 50997), (28, 51000), (30, 51009), (35, 51051), (37, 51063),

Gene: Unicorn_80 Start: 50783, Stop: 50995, Start Num: 15

Candidate Starts for Unicorn_80:

(12, 50753), (14, 50777), (Start: 15 @50783 has 28 MA's), (21, 50840), (24, 50894), (28, 50918), (35, 50969), (36, 50972), (37, 50981),