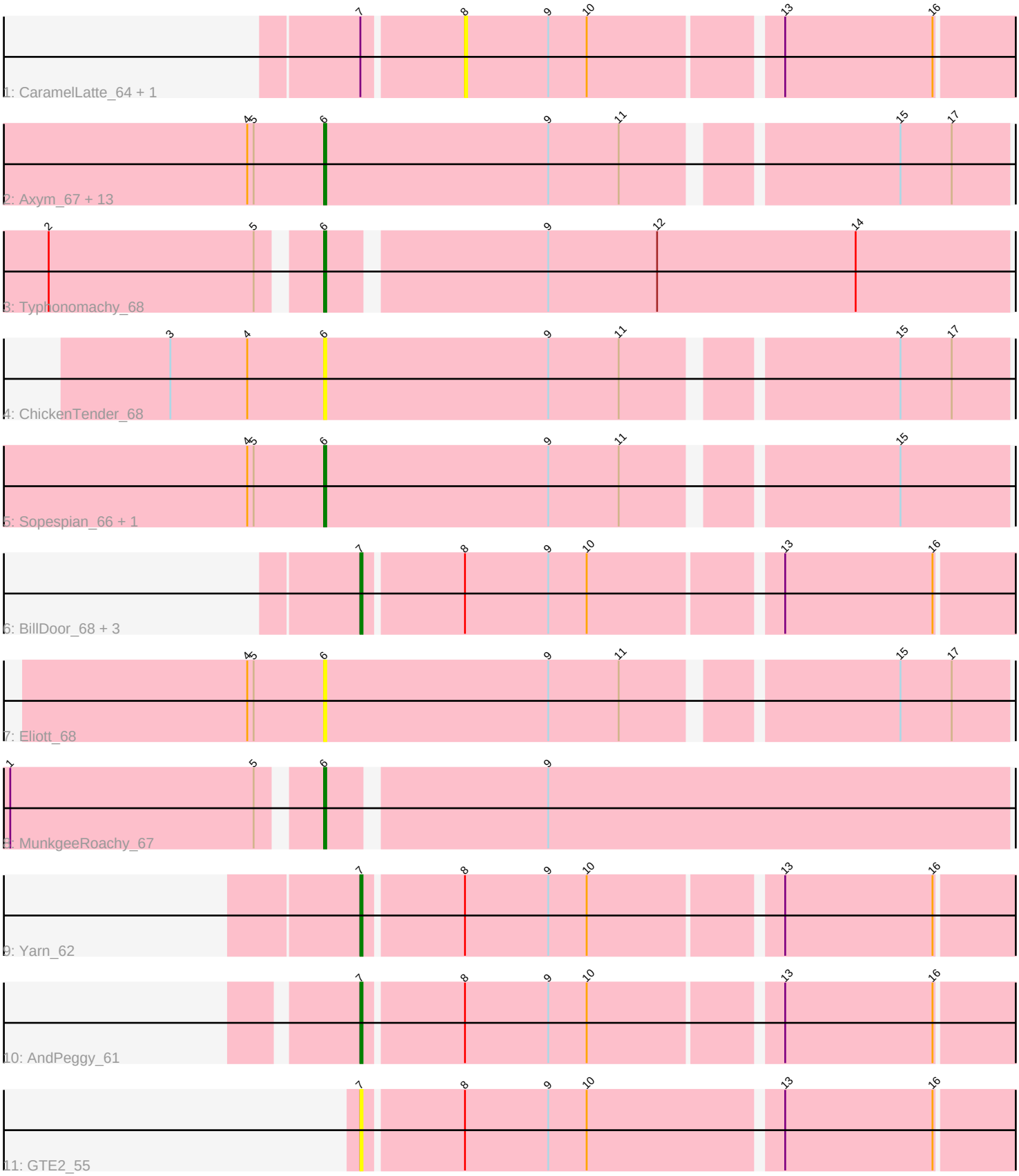
Pham 346033


1: CaramelLatte_64 + 1
2: Axym_67 + 13
3: Typhonomachy_68
4: ChickenTender_68
5: Sopespian_66 + 1
6: BillDoor_68 + 3
7: Eliott_68
8: MunkgeeRoachy_67
9: Yarn_62
10: AndPeggy_61
11: GTE2_55

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 346033 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346033 has 29 members, 10 are drafts.

Phages represented in each track:
• Track 1 : CaramelLatte_64, CanesSauce_64
• Track 2 : Axym_67, Cozz_68, GoldHunter_69, Carsonalex_72, Burnsey_68, Bubble_68, Starburst_70, Quasar_69, Socotra_70, Nina_68, Agatha_69, RADical_70, RSchmailzl_69, RedBaron_76
• Track 3 : Typhonomachy_68
• Track 4 : ChickenTender_68
• Track 5 : Sopespian_66, PsychoKiller_67
• Track 6 : BillDoor_68, ChocoMunchkin_64, Tolls_67, SteamedHams_66
• Track 7 : Eliott_68
• Track 8 : MunkgeeRoachy_67
• Track 9 : Yarn_62
• Track 10 : AndPeggy_61
• Track 11 : GTE2_55

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 14 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Agatha_69, Axym_67, Bubble_68, Burnsey_68, Carsonalex_72, ChickenTender_68, Cozz_68, Eliott_68, GoldHunter_69, MunkgeeRoachy_67, Nina_68, PsychoKiller_67, Quasar_69, RADical_70, RSchmailzl_69, RedBaron_76, Socotra_70, Sopespian_66, Starburst_70, Typhonomachy_68,

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

Genes that do not have the "Most Annotated" start:
• AndPeggy_61, BillDoor_68, CanesSauce_64, CaramelLatte_64, ChocoMunchkin_64, GTE2_55, SteamedHams_66, Tolls_67, Yarn_62,

Summary by start number:

Start 6:
• Found in 20 of 29 (69.0%) of genes in pham
• Manual Annotations of this start: 14 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agatha_69 (CT), Axym_67 (CT), Bubble_68 (CT), Burnsey_68 (CT), Carsonalex_72 (CT), ChickenTender_68 (CT), Cozz_68 (CT), Eliott_68 (CT), GoldHunter_69 (CT), MunkgeeRoachy_67 (CT), Nina_68 (CT), PsychoKiller_67 (CT), Quasar_69 (CT), RADical_70 (CT), RSchmailzl_69 (CT), RedBaron_76 (CT), Socotra_70 (CT), Sopespian_66 (CT), Starburst_70 (CT), Typhonomachy_68 (CT),

Start 7:
• Found in 9 of 29 (31.0%) of genes in pham
• Manual Annotations of this start: 5 of 19
• Called 77.8% of time when present
• Phage (with cluster) where this start called: AndPeggy_61 (CT), BillDoor_68 (CT), ChocoMunchkin_64 (CT), GTE2_55 (CT), SteamedHams_66 (CT), Tolls_67 (CT), Yarn_62 (CT),

Start 8:
• Found in 9 of 29 (31.0%) of genes in pham
• No Manual Annotations of this start.
• Called 22.2% of time when present
• Phage (with cluster) where this start called: CanesSauce_64 (CT), CaramelLatte_64 (CT),

Summary by clusters:

There is one cluster represented in this pham: CT

Info for manual annotations of cluster CT:
•Start number 6 was manually annotated 14 times for cluster CT.
•Start number 7 was manually annotated 5 times for cluster CT.

Gene Information:

Gene: Agatha_69 Start: 45486, Stop: 45791, Start Num: 6
Candidate Starts for Agatha_69:
(4, 45450), (5, 45453), (Start: 6 @45486 has 14 MA's), (9, 45591), (11, 45624), (15, 45741), (17, 45765),

Gene: AndPeggy_61 Start: 43446, Stop: 43751, Start Num: 7
Candidate Starts for AndPeggy_61:
(Start: 7 @43446 has 5 MA's), (8, 43491), (9, 43530), (10, 43548), (13, 43632), (16, 43701),

Gene: Axym_67 Start: 45361, Stop: 45666, Start Num: 6
Candidate Starts for Axym_67:
(4, 45325), (5, 45328), (Start: 6 @45361 has 14 MA's), (9, 45466), (11, 45499), (15, 45616), (17, 45640),

Gene: BillDoor_68 Start: 43719, Stop: 44024, Start Num: 7

Candidate Starts for BillDoor_68:
(Start: 7 @43719 has 5 MA's), (8, 43764), (9, 43803), (10, 43821), (13, 43905), (16, 43974),

Gene: Bubble_68 Start: 45416, Stop: 45721, Start Num: 6
Candidate Starts for Bubble_68:
(4, 45380), (5, 45383), (Start: 6 @45416 has 14 MA's), (9, 45521), (11, 45554), (15, 45671), (17, 45695),

Gene: Burnsey_68 Start: 45073, Stop: 45378, Start Num: 6
Candidate Starts for Burnsey_68:
(4, 45037), (5, 45040), (Start: 6 @45073 has 14 MA's), (9, 45178), (11, 45211), (15, 45328), (17, 45352),

Gene: CanesSauce_64 Start: 43658, Stop: 43918, Start Num: 8
Candidate Starts for CanesSauce_64:
(Start: 7 @43613 has 5 MA's), (8, 43658), (9, 43697), (10, 43715), (13, 43799), (16, 43868),

Gene: CaramelLatte_64 Start: 43658, Stop: 43918, Start Num: 8
Candidate Starts for CaramelLatte_64:
(Start: 7 @43613 has 5 MA's), (8, 43658), (9, 43697), (10, 43715), (13, 43799), (16, 43868),

Gene: Carsonalex_72 Start: 45531, Stop: 45836, Start Num: 6
Candidate Starts for Carsonalex_72:
(4, 45495), (5, 45498), (Start: 6 @45531 has 14 MA's), (9, 45636), (11, 45669), (15, 45786), (17, 45810),

Gene: ChickenTender_68 Start: 44151, Stop: 44456, Start Num: 6
Candidate Starts for ChickenTender_68:
(3, 44079), (4, 44115), (Start: 6 @44151 has 14 MA's), (9, 44256), (11, 44289), (15, 44406), (17, 44430),

Gene: ChocoMunchkin_64 Start: 43613, Stop: 43918, Start Num: 7
Candidate Starts for ChocoMunchkin_64:
(Start: 7 @43613 has 5 MA's), (8, 43658), (9, 43697), (10, 43715), (13, 43799), (16, 43868),

Gene: Cozz_68 Start: 45488, Stop: 45793, Start Num: 6
Candidate Starts for Cozz_68:
(4, 45452), (5, 45455), (Start: 6 @45488 has 14 MA's), (9, 45593), (11, 45626), (15, 45743), (17, 45767),

Gene: Eliott_68 Start: 44957, Stop: 45262, Start Num: 6
Candidate Starts for Eliott_68:
(4, 44921), (5, 44924), (Start: 6 @44957 has 14 MA's), (9, 45062), (11, 45095), (15, 45212), (17, 45236),

Gene: GTE2_55 Start: 44385, Stop: 44693, Start Num: 7
Candidate Starts for GTE2_55:
(Start: 7 @44385 has 5 MA's), (8, 44430), (9, 44469), (10, 44487), (13, 44574), (16, 44643),

Gene: GoldHunter_69 Start: 45477, Stop: 45782, Start Num: 6
Candidate Starts for GoldHunter_69:
(4, 45441), (5, 45444), (Start: 6 @45477 has 14 MA's), (9, 45582), (11, 45615), (15, 45732), (17, 45756),

Gene: MunkgeeRoachy_67 Start: 44793, Stop: 45104, Start Num: 6
Candidate Starts for MunkgeeRoachy_67:
(1, 44655), (5, 44769), (Start: 6 @44793 has 14 MA's), (9, 44889),

Gene: Nina_68 Start: 45560, Stop: 45865, Start Num: 6
Candidate Starts for Nina_68:
(4, 45524), (5, 45527), (Start: 6 @45560 has 14 MA's), (9, 45665), (11, 45698), (15, 45815), (17, 45839),

Gene: PsychoKiller_67 Start: 44958, Stop: 45263, Start Num: 6
Candidate Starts for PsychoKiller_67:
(4, 44922), (5, 44925), (Start: 6 @44958 has 14 MA's), (9, 45063), (11, 45096), (15, 45213),

Gene: Quasar_69 Start: 45847, Stop: 46152, Start Num: 6
Candidate Starts for Quasar_69:
(4, 45811), (5, 45814), (Start: 6 @45847 has 14 MA's), (9, 45952), (11, 45985), (15, 46102), (17, 46126),

Gene: RADical_70 Start: 45364, Stop: 45669, Start Num: 6
Candidate Starts for RADical_70:
(4, 45328), (5, 45331), (Start: 6 @45364 has 14 MA's), (9, 45469), (11, 45502), (15, 45619), (17, 45643),

Gene: RSchmailzl_69 Start: 45380, Stop: 45685, Start Num: 6
Candidate Starts for RSchmailzl_69:
(4, 45344), (5, 45347), (Start: 6 @45380 has 14 MA's), (9, 45485), (11, 45518), (15, 45635), (17, 45659),

Gene: RedBaron_76 Start: 46384, Stop: 46689, Start Num: 6
Candidate Starts for RedBaron_76:
(4, 46348), (5, 46351), (Start: 6 @46384 has 14 MA's), (9, 46489), (11, 46522), (15, 46639), (17, 46663),

Gene: Socotra_70 Start: 45470, Stop: 45775, Start Num: 6
Candidate Starts for Socotra_70:
(4, 45434), (5, 45437), (Start: 6 @45470 has 14 MA's), (9, 45575), (11, 45608), (15, 45725), (17, 45749),

Gene: Sopespian_66 Start: 44959, Stop: 45264, Start Num: 6
Candidate Starts for Sopespian_66:
(4, 44923), (5, 44926), (Start: 6 @44959 has 14 MA's), (9, 45064), (11, 45097), (15, 45214),

Gene: Starburst_70 Start: 45366, Stop: 45671, Start Num: 6
Candidate Starts for Starburst_70:
(4, 45330), (5, 45333), (Start: 6 @45366 has 14 MA's), (9, 45471), (11, 45504), (15, 45621), (17, 45645),

Gene: SteamedHams_66 Start: 43429, Stop: 43728, Start Num: 7
Candidate Starts for SteamedHams_66:
(Start: 7 @43429 has 5 MA's), (8, 43474), (9, 43513), (10, 43531), (13, 43615), (16, 43684),

Gene: Tolls_67 Start: 43700, Stop: 44008, Start Num: 7

Candidate Starts for Tolls_67:
(Start: 7 @43700 has 5 MA's), (8, 43745), (9, 43784), (10, 43802), (13, 43889), (16, 43958),

Gene: Typhonomachy_68 Start: 45176, Stop: 45487, Start Num: 6
Candidate Starts for Typhonomachy_68:
(2, 45056), (5, 45152), (Start: 6 @45176 has 14 MA's), (9, 45272), (12, 45323), (14, 45416),

Gene: Yarn_62 Start: 43457, Stop: 43762, Start Num: 7
Candidate Starts for Yarn_62:
(Start: 7 @43457 has 5 MA's), (8, 43502), (9, 43541), (10, 43559), (13, 43643), (16, 43712),